

Fiery X3

CONFIGURATION GUIDE



Copyright © 2001 Electronics For Imaging, Inc. All rights reserved.

This publication is protected by copyright, and all rights are reserved. No part of it may be reproduced or transmitted in any form or by any means for any purpose without express prior written consent from Electronics For Imaging, Inc., except as expressly permitted herein. Information in this document is subject to change without notice and does not represent a commitment on the part of Electronics For Imaging, Inc.

The software described in this publication is furnished under license and may only be used or copied in accordance with the terms of such license.

Patents: 5,867,179; 5,835,788; 5,666,436; 5,553,200; 5,543,940; 5,537,516; 5,517,334; 5,506,946; 5,424,754; 5,343,311; 5,212,546; 4,941,038; 4,837,722; 4,500,919; D406,117

Trademarks

ColorWise, EDOX, EFI, Fiery, the Fiery logo, Fiery Driven and RIP-While-Print are registered trademarks of Electronics For Imaging, Inc. in the U.S. Patent and Trademark Office and/or certain other foreign jurisdictions.

The eBeam logo, the Electronics For Imaging logo, the Fiery Driven logo, the Splash logo, AutoCal, ColorCal, Command WorkStation, DocBuilder, DocBuilder Pro, DocStream, eBeam, EFI Color Profiler, EFI Production System, EFI ScanBuilder, Fiery X2, Fiery X2e, Fiery X2-W, Fiery X3e, Fiery X4, Fiery ZX, Fiery Z4, Fiery Z5, Fiery Z9, Fiery Z16, Fiery Z18, Fiery Document WorkStation, Fiery Downloader, Fiery Driver, Fiery FreeForm, Fiery Link, Fiery Prints, Fiery Print Calibrator, Fiery Production System, Fiery Scan, Fiery ScanBuilder, Fiery Spark, Fiery Spooler, Fiery WebInstaller, Fiery WebScan, Fiery WebSpooler, Fiery WebStatus, Fiery WebTools, NetWise, RIPChips, Splash, Velocity, Velocity Balance, Velocity Build, Velocity Design, Velocity Estimate, Velocity Scan, and VisualCal are trademarks of Electronics For Imaging, Inc. All other terms and product names may be trademarks or registered trademarks of their respective owners, and are hereby acknowledged.

Legal Notices

APPLE COMPUTER, INC. ("APPLE") MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE APPLE SOFTWARE. APPLE DOES NOT WARRANT, GUARANTEE, OR MAKE ANY REPRESENTATIONS REGARDING THE USE OR THE RESULTS OF THE USE OF THE APPLE SOFTWARE IN TERMS OF ITS CORRECTNESS, ACCURACY, RELIABILITY, CURRENTNESS, OR OTHERWISE. THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF THE APPLE SOFTWARE IS ASSUMED BY YOU. THE EXCLUSION OF IMPLIED WARRANTIES IS NOT PERMITTED BY SOME STATES. THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

IN NO EVENT WILL APPLE, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE TO YOU FOR ANY CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES (INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, AND THE LIKE) ARISING OUT OF THE USE OR INABILITY TO USE THE APPLE SOFTWARE EVEN IF APPLE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BECAUSE SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Apple's liability to you for actual damages from any cause whatsoever, and regardless of the form of the action (whether in contract, tort [including negligence], product liability or otherwise), will be limited to \$50.

Restricted Rights Legends

For defense agencies: Restricted Rights Legend. Use, reproduction, or disclosure is subject to restrictions set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at 252.227.7013.

For civilian agencies: Restricted Rights Legend. Use, reproduction, or disclosure is subject to restrictions set forth in subparagraph (a) through (d) of the commercial Computer Software Restricted Rights clause at 52.227-19 and the limitations set forth in Electronics For Imaging, Inc.'s standard commercial agreement for this software. Unpublished rights reserved under the copyright laws of the United States.

Printed in the United States of America on recycled paper.

Part Number: 45025141

FCC Information**Declaration of Conformity**

Trade Name:	Fiery Server
Model Number:	MXI-01
Compliance Test Report Number:	M10810A1
Compliance Test Report Date:	August 23, 2001
Responsible Party (in USA):	Electronics For Imaging, Inc.
Address:	303 Velocity Way, Foster City, CA 94404
Telephone:	(650) 357-3500

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Industry Canada Class B Notice

This Class B digital apparatus complies with Canadian ICES-003.

Avis de Conformation Classe B de l'Industrie Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Marking (Declaration of Conformity)

We declare under our sole responsibility that the copier and options to which this declaration relates is in conformity with the specifications below. This declaration is valid for the area of the European Union (EU) only.

Product Type	Digital Copier with Printer Controller
System Product Name	Di650 with Fiery X3 (MXI-01)
Options	EDH-2, FN-104, FN-4, Cover Inserter A, C-305, C-305L, TMG-1, and I/F KIT L
Accessories	HDD for Di650A, M64-1, M128-1
Standards	<p>Safety * 2 : EN 60 950/1992 (A1, A2, A3, A4 & A11) (Safety of information technology equipment, including electrical business equipment) EN 60825-1 / 1994 with A11 (Copier only) (Radiation safety of laser products, equipment classification, requirements, and user's guide)</p> <p>EMC *1 : EN55 022 (Class B)/1994 with A1 (1995) & A2 (1997) EN55 022 (Class B)/1998 (Printer Controller only) (Limits and method for measurement of radio disturbance characteristics of information technology equipment (ITE)) EN61000-3-2/1995 (Electromagnetic compatibility (EMC)- Part 3: Limits, Section 2: Limits for harmonic current emissions (equipment input current ≤ 16A per phase)) EN61000-3-3/1995 (Electromagnetic compatibility (EMC)- Part 3: Limits, Section 2: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16A EN55024/1998 (Information technology equipment — immunity characteristics — Limits and methods of measurement EN61000-4-2/1995 : Electrostatic discharge immunity test EN61000-4-3/1995 : Radiated electromagnetic field immunity test EN61000-4-4/1995 : Electrical fast transient/burst immunity test EN61000-4-5/1995 : Surge immunity test EN61000-4-6/1996 : Immunity to conducted disturbance, induced by radio-frequency field EN61000-4-8/1993 : Power-frequency magnetic field immunity test EN61000-4-11: Voltage dips, short interruptions and voltage variations immunity test</p> <p>Notes: *1) EMC performance: This product was designed for operation in a typical office environment. *2) First year of labeling according to EC-directive 73/23/EEC and 93/68/EEC: 2000 3) This product was designed for operation in a typical office environment.</p>
EC Directives	<p>Safety: 73/23/EEC and 93/68/EEC EMC: 89/336/EEC and 93/68/EEC</p>

This device must be used with shielded interface cables. The use of non-shielded cable is likely to result in interference with radio communications and is prohibited under EC Directives.

Software License Agreement

Before using the Software, please carefully read the following terms and conditions. BY USING THIS SOFTWARE, YOU SIGNIFY THAT YOU HAVE ACCEPTED THE TERMS OF THIS AGREEMENT. If you cannot or do not accept these terms, you may return the entire package within ten (10) days to the Distributor or Dealer from which you obtained them for a full refund.

Electronics for Imaging, Inc. grants to you a non-exclusive, non-transferable license to use the software and accompanying documentation ("Software") included with the Fiery X3 you have purchased, including without limitation the PostScript software provided by Adobe Systems Incorporated.

You may:

- a. use the Software solely for your own customary business purposes and solely with Fiery X3;
- b. use the digitally-encoded machine-readable outline and bitmap programs ("Font Programs") provided with Fiery X3 in a special encrypted format ("Coded Font Programs") to reproduce and display designs, styles, weights, and versions of letters, numerals, characters and symbols ("Typefaces") solely for your own customary business purposes on the display window of the Fiery X3 or monitor used with Fiery X3;
- c. use the trademarks used by Electronics for Imaging to identify the Coded Font Programs and Typefaces reproduced therefrom ("Trademarks"); and
- d. assign your rights under this Agreement to a transferee of all of your right, title and interest in and to Fiery X3 provided the transferee agrees to be bound by all of the terms and conditions of this Agreement.

You may not:

- a. make use of the Software, directly or indirectly, to print bitmap images with print resolutions of 600 dots per inch or greater, or to generate fonts or typefaces for use other than with Fiery X3;
- b. make or have made, or permit to be made, any copies of the Software, Coded Font Programs, accompanying documentation or portions thereof, except as necessary for use with the Fiery X3 unit purchased by you; provided, however, that under no circumstances may you make or have made, or permit to be made, any copies of that certain portion of the Software which has been included on the Fiery X3 hard disk drive. You may not copy the documentation;
- c. attempt to alter, disassemble, decrypt or reverse engineer the Software, Coded Font Programs or accompanying documentation.
- d. rent or lease the Software.

Proprietary Rights

You acknowledge that the Software, Coded Font Programs, Typefaces, Trademarks and accompanying documentation are proprietary to Electronics For Imaging and its suppliers and that title and other intellectual property rights therein remain with Electronics For Imaging and its suppliers. Except as stated above, this Agreement does not grant you any right to patents, copyrights, trade secrets, trademarks (whether registered or unregistered), or any other rights, franchises or licenses in respect of the Software, Coded Font Programs, Typefaces, Trademarks or accompanying documentation. You may not adapt or use any trademark or trade name which is likely to be similar to or confusing with that of Electronics For Imaging or any of its suppliers or take any other action which impairs or reduces the trademark rights of Electronics For Imaging or its suppliers. The trademarks may only be used to identify printed output produced by the Coded Font Programs. At the reasonable request of Electronics For Imaging, you must supply samples of any Typeface identified with a trademark.

Confidentiality

You agree to hold the Software and Coded Font Programs in confidence, disclosing the Software and Coded Font Programs only to authorized users having a need to use the Software and Coded Font Programs as permitted by this Agreement and to take all reasonable precautions to prevent disclosure to other parties.

Remedies

Unauthorized use, copying or disclosure of the Software, Coded Font Programs, Typefaces, Trademarks or accompanying documentation will result in automatic termination of this license and will make available to Electronics For Imaging other legal remedies.

Limited Warranty And Disclaimer

Electronics For Imaging warrants that, for a period of ninety (90) days from the date of delivery to you, the Software under normal use will perform without significant errors that make it unusable. Electronics For Imaging's entire liability and your exclusive remedy under this warranty (which is subject to you returning Fiery X3 to Electronics For Imaging or an authorized dealer) will be, at Electronics For Imaging's option, to use reasonable commercial efforts to attempt to correct or work around errors, to replace the Software with functionally equivalent software, or to refund the purchase price and terminate this Agreement. Some states do not allow limitations on duration of implied warranty, so the above limitation may not apply to you.

Except for the above express limited warranty, Electronics For Imaging makes and you receive no warranties or conditions on the Products, express, implied, or statutory, and Electronics For Imaging specifically disclaims any implied warranty or condition of merchantability or fitness for a particular purpose.

For warranty service, please contact your authorized service/support center.

EXCEPT FOR THE ABOVE EXPRESS LIMITED WARRANTY, ELECTRONICS FOR IMAGING MAKES AND YOU RECEIVE NO WARRANTIES OR CONDITIONS ON THE SOFTWARE OR CODED FONT PROGRAMS, EXPRESS, IMPLIED, STATUTORY, OR IN ANY OTHER PROVISION OF THIS AGREEMENT OR COMMUNICATION WITH YOU, AND ELECTRONICS FOR IMAGING SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Electronics For Imaging does not warrant that the operation of the software will be uninterrupted or error free or that the Software will meet your specific requirements.

Limitation Of Liability

IN NO EVENT WILL ELECTRONICS FOR IMAGING OR ITS SUPPLIERS BE LIABLE FOR ANY DAMAGES, INCLUDING LOSS OF DATA, LOST PROFITS, COST OF COVER OR OTHER SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES ARISING FROM THE USE OF THE SOFTWARE, CODED FONT PROGRAMS OR ACCOMPANYING DOCUMENTATION, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY. THIS LIMITATION WILL APPLY EVEN IF ELECTRONICS FOR IMAGING OR ANY AUTHORIZED DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. YOU ACKNOWLEDGE THAT THE PRICE OF THE UNIT REFLECTS THIS ALLOCATION OF RISK. BECAUSE SOME STATES/JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Export Controls

You agree that you will not export or re-export the Software or Coded Font Programs in any form without the appropriate United States and foreign government licenses. Your failure to comply with this provision is a material breach of this Agreement.

Government Use

Use, duplication or disclosure of the Software by the United States Government is subject to restrictions as set forth in subdivision (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 or in subparagraphs (c) (1) and (2) of the Commercial Computer Software—Restricted Right Clause at 48 CFR 52.227-19, as applicable.

Third Party Beneficiary

You are hereby notified that Adobe Systems Incorporated, a California corporation located at 345 Park Avenue, San Jose, CA 95110-2704 ("Adobe") is a third-party beneficiary to this Agreement to the extent that this Agreement contains provisions which relate to your use of the Fonts, the Coded Font Programs, the Typefaces and the Trademarks licensed hereby. Such provisions are made expressly for the benefit of Adobe and are enforceable by Adobe in addition to Electronics For Imaging.

General

This Agreement will be governed by the laws of the State of California.

This Agreement is the entire agreement held between us and supersedes any other communications or advertising with respect to the Software, Coded Font Programs and accompanying documentation.

If any provision of this Agreement is held invalid, the remainder of this Agreement shall continue in full force and effect.

If you have any questions concerning this Agreement, please write to Electronics For Imaging, Inc., Attn: Licensing Dept. or see Electronics For Imaging's web site at www.efi.com.

Electronics For Imaging
303 Velocity Way
Foster City, CA 94404

Contents

Introduction

Network administration features	xiii
About this manual	xiv
Organization	xv
About the documentation	xv

Chapter 1: Connecting to the Network

Fiery X3 on the network	1-1
Stages of installation on the network	1-2
Quick path to installation	1-4
Before you begin	1-11
Ethernet cable connection	1-12
Back view of the Fiery X3	1-12
Parallel cable connection	1-13

Chapter 2: Setting up the Fiery X3

About Fiery X3 Setup	2-1
Fiery X3 Setup from the Control Panel	2-2
Accessing Setup options	2-2
About the Control Panel Setup interface	2-4
Types of Setup screens	2-5
Server Setup options	2-7
Network Setup options	2-9
Port Setup options	2-11
Protocol Setup options	2-14
Service Setup options	2-22
Fiery X3 print connections	2-35
Direct connection	2-36
Queues	2-36

Printer Setup options	2-37
PS Setup options	2-39
PCL Setup options	2-41
Administrative functions in the Setup menu	2-43
Job Log Setup options	2-43
Change Password	2-45
Clear Server	2-45
Exit Setup	2-46
Printing the Configuration page	2-46

Chapter 3: Setting up the Fiery X3 from a Windows Computer

Accessing Setup	3-1
Server Setup	3-2
Server Setup	3-2
Passwords	3-3
Job Log Setup	3-5
Support	3-6
Network Setup	3-6
Ethernet (Port Setup)	3-8
Parallel Port (Port Setup)	3-9
Token Ring (Port Setup)	3-9
Protocol Setup (TCP/IP)	3-11
Protocol Setup (Token Ring)	3-12
Gateway	3-13
Protocol Setup (AppleTalk)	3-14
Protocol Setup (IPX Frames)	3-16
PServer Setup (NetWare Services)	3-18
PServer Setup (NDS Configuration)	3-18
PServer Setup (Bindery Setup)	3-20
Service Setup (Windows Printing Service)	3-22
Service Setup (Enable LPD Printing Service)	3-23
Service Setup (Enable Port 9100)	3-23
Service Setup (Enable Web Services)	3-23

Printer Setup	3-23
Printer Setup	3-25
Paper Setup	3-27
Exiting Setup	3-28

Chapter 4: Setting up Network Servers

Fiery X3 on a NetWare 5.x network with NDPS	4-1
Tips for experts—NetWare 5.x networks	4-2
Configuring a NetWare 5.x server for printing	4-2
Fiery X3 on a NetWare 3.x, 4.x, or 5.x network	4-4
Tips for experts—IPX networks	4-5
Overview of IPX printing to the Fiery X3	4-6
Configuring a NetWare server for printing	4-7
Setting the NetWare 4.x bindery context	4-9
Fiery X3 on a TCP/IP network with Windows NT 4.0	4-11
Tips for experts—Windows NT 4.0 with TCP/IP	4-11
Configuring a Windows NT 4.0 server to support the Fiery X3	4-12
Configuring the Fiery X3 and clients for Fiery WebTools	4-15
Setting the WebLink destination	4-17
Fiery X3 on a network with UNIX workstations	4-18
Tips for experts—UNIX workstations	4-18
Important note about the remote printer name	4-19
Setting up the Fiery X3 on TCP/IP networks	4-19

Chapter 5: Administering the Fiery X3

Administrator functions	5-1
Maintaining optimal performance	5-2
Troubleshooting	5-3
Troubleshooting during Setup	5-3
Runtime error messages	5-9

Appendix A: Token Ring Network Option

Fiery X3 Token Ring option	A-1
Connecting Token Ring hardware	A-1
IPX/SPX installations	A-3
TCP/IP installations	A-3
Setting up Token Ring on the Fiery X3	A-3
Setting up NetWare Windows clients	A-3

Index

Introduction

This manual is intended for anyone who is responsible for integrating the Fiery® X3™ 65BW-M Pro into a business environment that includes networked personal computers. After you set up the Fiery X3 65BW-M Pro and client workstations as described in this manual and in *Getting Started*, individual users can print to the Fiery X3 65BW-M Pro as a high-performance printer.

Network administration features

Fiery X3 software offers several important features that affect you as a network or printer administrator:

- **Direct (native) support of NDS (Novell Directory Services) with NetWare 4.x**

NetWare 4.x can also be supported in bindery emulation.

- **Simultaneous NetWare 4.x and NetWare 3.12 connections supported**

One NetWare 4.x NDS tree and up to eight NetWare 3.12 bindery servers (or NetWare 4.x servers in bindery emulation mode) can be connected to the Fiery X3.

- **Fiery Downloader™**

Fiery Downloader can be run from Mac OS computers.

- **Fiery WebTools™ (Fiery WebSpooler™, Status, Installer, WebDownloader, WebSetup, WebScan™, and WebLink)**

Fiery WebTools allow you to manage the Fiery X3 from the Internet or from your company's intranet. To use Fiery WebTools, you need to set certain options in Network Setup and Printer Setup.

- **Job tracking**

Job Logs can include two user-entered Notes fields.

- **Support for PCL and PostScript**

PCL (Printer Control Language) and PostScript are both page description languages—computer languages that control the transfer of information from the computer to the controller. Both PCL and PostScript, along with separate sets of fonts, are standard with the Fiery X3.

- **Support for Windows (SMB) printing**

Windows printing, also known as SMB (Server Message Block) printing, allows you to print on TCP/IP networks using built-in Microsoft networking support and without additional network software. Printing using SMB allows you to print from your computer to a particular connection (Hold, Print, or Direct) on the Fiery X3.

NOTE: SMB is not supported on Windows 2000.

About this manual

This manual includes guidelines on the following topics:

- Basic configuration of the Fiery X3 to support printing over AppleTalk, TCP/IP, and IPX (Novell) networks
- Setting up a parallel port connection
- Configuring Novell and Windows NT 4.0 servers and UNIX systems to provide Fiery X3 printing services
- Administering network printing
- Using the Fiery X3 in mixed network environments
- Setting up a Token Ring connection

NOTE: The network guidelines in this manual are not intended to replace the services of an experienced network engineer.

Organization

The manual is organized as follows:

- Chapter 1 illustrates the supported network configurations and shows the network connectors on the Fiery X3.
- Chapter 2 describes Fiery X3 configuration from the Control Panel.
- Chapter 3 describes Fiery X3 configuration from a Microsoft Windows computer.
- Chapter 4 offers guidelines for setting up Windows NT 4.0 and Novell network servers and UNIX systems for printing to the Fiery X3.
- Chapter 5 summarizes some administrative features of Fiery X3 software that are available for IPX/SPX, TCP/IP, and AppleTalk networks, and also offers some troubleshooting hints.
- Appendix A describes the Token Ring option.

NOTE: Administrator features described in other manuals are summarized on page 5-1.

About the documentation

This manual is part of the set of Fiery X3 documentation that includes the following manuals for users and system administrators:

- The *Configuration Guide* explains basic configuration and administration of the Fiery X3 for the supported platforms and network environments. It also includes guidelines for setting up UNIX, Windows NT 4.0, and NetWare servers to provide PCL and PostScript printing services to clients.
- *Getting Started* describes how to install software to enable users to print to the Fiery X3. Specifically, it describes installation of printer drivers, printer description files, and other user software provided on the User Software CD. It also explains how to connect each user to the network.
- The *Printing Guide* describes how to set printing options and print to the Fiery X3. This manual also describes how to use the software installed from the User Software CD, including chapters on printing from Windows and Mac OS computers.

- The *Job Management Guide* explains the functions of the Fiery utilities, including Command WorkStation™, and how they can be used to manage jobs. This book is intended for an operator or administrator, or a user with the necessary access privileges, who needs to monitor and manage job flow, and troubleshoot problems that may arise.
- *Release Notes* provide last-minute product information and workarounds for some of the problems you may encounter.

NOTE: If there are any connectivity or administrative features that are specific to a copier model, they are described in *Getting Started*, the *Printing Guide*, or the *Release Notes*.

Chapter 1: Connecting to the Network

This chapter summarizes the stages in setting up the Fiery X3 and includes diagrams that refer you to other chapters or other manuals for completing your installation.

Fiery X3 on the network

When the Fiery X3 is connected to a network, it behaves as a networked PCL or PostScript printer. The built-in Ethernet interface on the Fiery X3 supports the following network protocols:

- AppleTalk
- TCP/IP (the lpd, nbt, and http protocols)

TCP/IP stands for Transmission Control Protocol/Internet Protocol. The lpd protocol is the standard TCP/IP printing protocol. The nbt protocol supports Windows (SMB) printing. The http protocol is commonly used for Web pages on the Internet and on intranets.

- IPX/SPX (Novell)

IPX/SPX stands for Internetwork Packet Exchange/Sequenced Packet Exchange.

These protocols (rules that enable computers on a network to communicate with each other) are supported on the Windows, Mac OS, and UNIX platforms and can run concurrently on the same Ethernet cable. Workstations that use other protocols can print through a server that uses one of the protocols mentioned, or they can print to the Fiery X3 parallel port.

A Token Ring option is also available. This option supports the TCP/IP and IPX protocols. The Fiery X3 is auto-sensing and can handle all of these connections simultaneously.

When you add the Fiery X3 to a network, it is assumed that a network administrator will have already installed a network cabling system and connected workstations and servers.

Stages of installation on the network

Installation can be performed by a network or printing administrator. The stages of a successful installation are:

- **Physically connecting the Fiery X3 to a functioning network**

Prepare a network node for the Fiery X3—obtain cable and route it to the location where the Fiery X3 will be installed (near the copier), and attach the cable to the network interface of the Fiery X3. See page 1-11 for details.

- **Configuring network servers**

When network servers are required, you need to configure those servers to provide client access to the Fiery X3 as a PostScript or PCL printer. See Chapter 4 for information on configuring network servers in Windows and UNIX network environments.

- **Fiery X3 Setup**

Configure the Fiery X3 for your particular printing and network environment. See Chapter 2 for details.

- **Client setup**

Install the files needed for printing, install additional user software, and connect the client to the Fiery X3 over the network. These steps are described in *Getting Started*, and some information is provided in Chapter 4 of this manual.

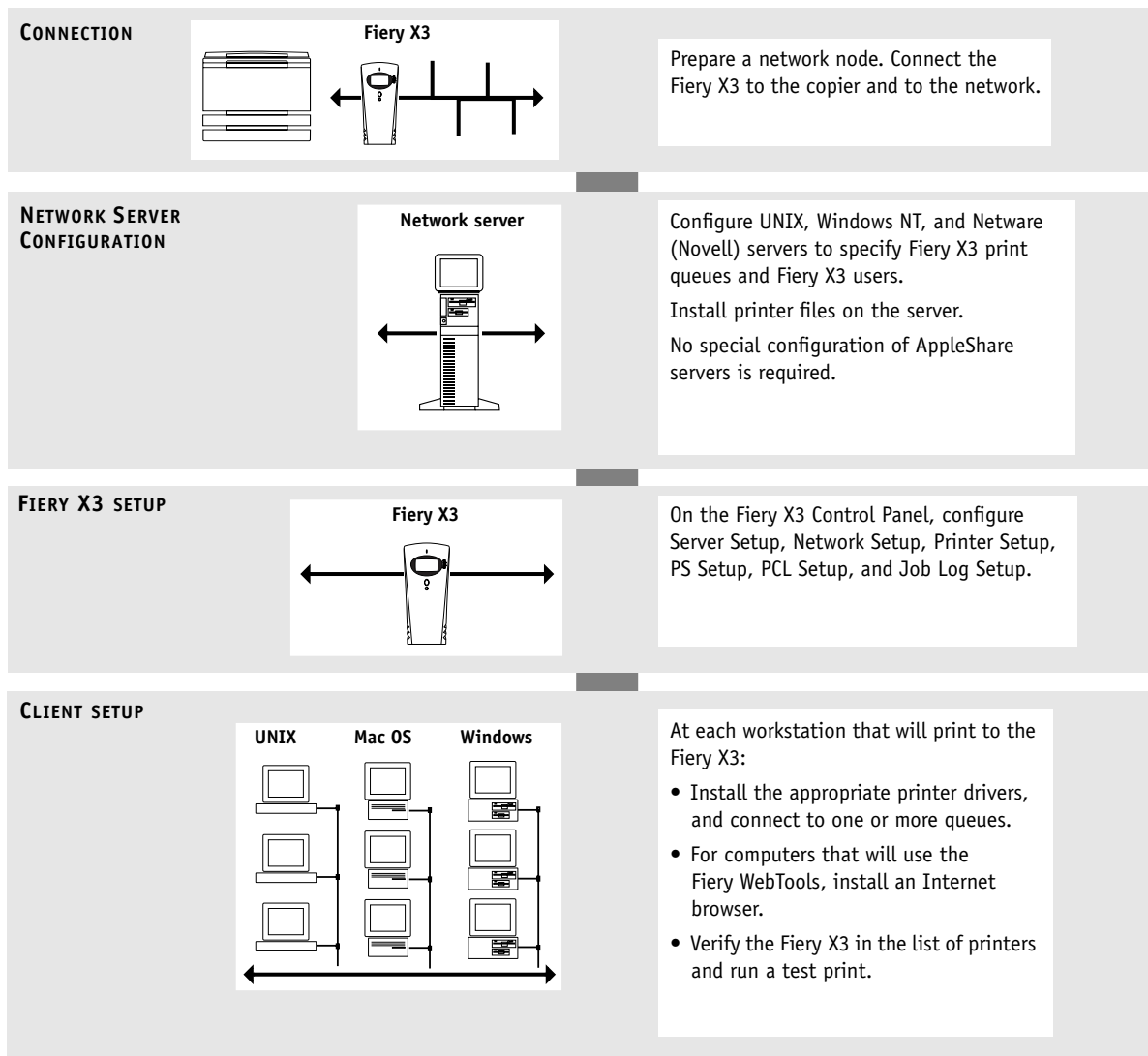
- **System administration**

Monitor and maintain system performance and troubleshoot problems that arise. See Chapter 5 for details.

1

1-3 Stages of installation on the network

Summary of Fiery X3 network installation



Fiery X3 available on the network

Quick path to installation

The diagrams in the following pages show typical systems that can be used for printing and for using remote utilities. To use the diagrams, find the page with your preferred platform and network type. Then look up the setup procedures in the pages and books referred to in the keys.

The diagrams describe devices that use the supported networking protocols. They are logical diagrams and are not intended to describe the physical arrangement (topology) of devices on the network. A variety of physical arrangements is possible with each logical arrangement. For example, twisted pair Ethernet networks commonly use a star configuration around a hub, rather than a bus arrangement. The design of physical networks is beyond the scope of this manual.

If the network uses more than one protocol or more than one type of workstation, combine the setups listed for each component of your system. Multiple protocols (shown in the diagrams as parallel lines) can run on the same cable. A solid connection from the Fiery X3 with an arrow indicates that other supported network types can be operational at the same time.

Token Ring hardware is required for connection to a Token Ring network. See Appendix A for details. The IPX/SPX and TCP/IP functionality outlined in this section is available on both Ethernet and Token Ring networks. AppleTalk is supported on Ethernet only.

The protocols used in these diagrams are indicated as follows:

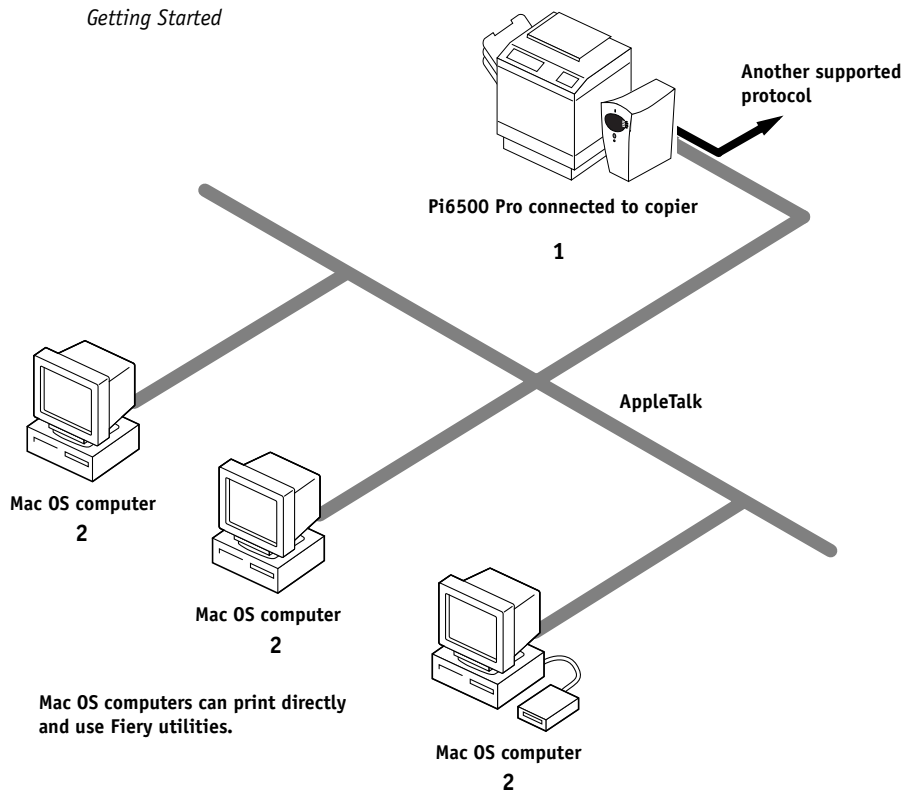


Mac OS environment with AppleTalk

Key to setup:

- 1 Fiery X3 Setup
- 2 Mac OS computer

Chapter 2
Getting Started



Windows computers in a Novell environment

Key to setup:

- 1 NetWare server
- 2 Fiery X3 Setup
- 3 NetWare client
- 4 Windows computer with SPX

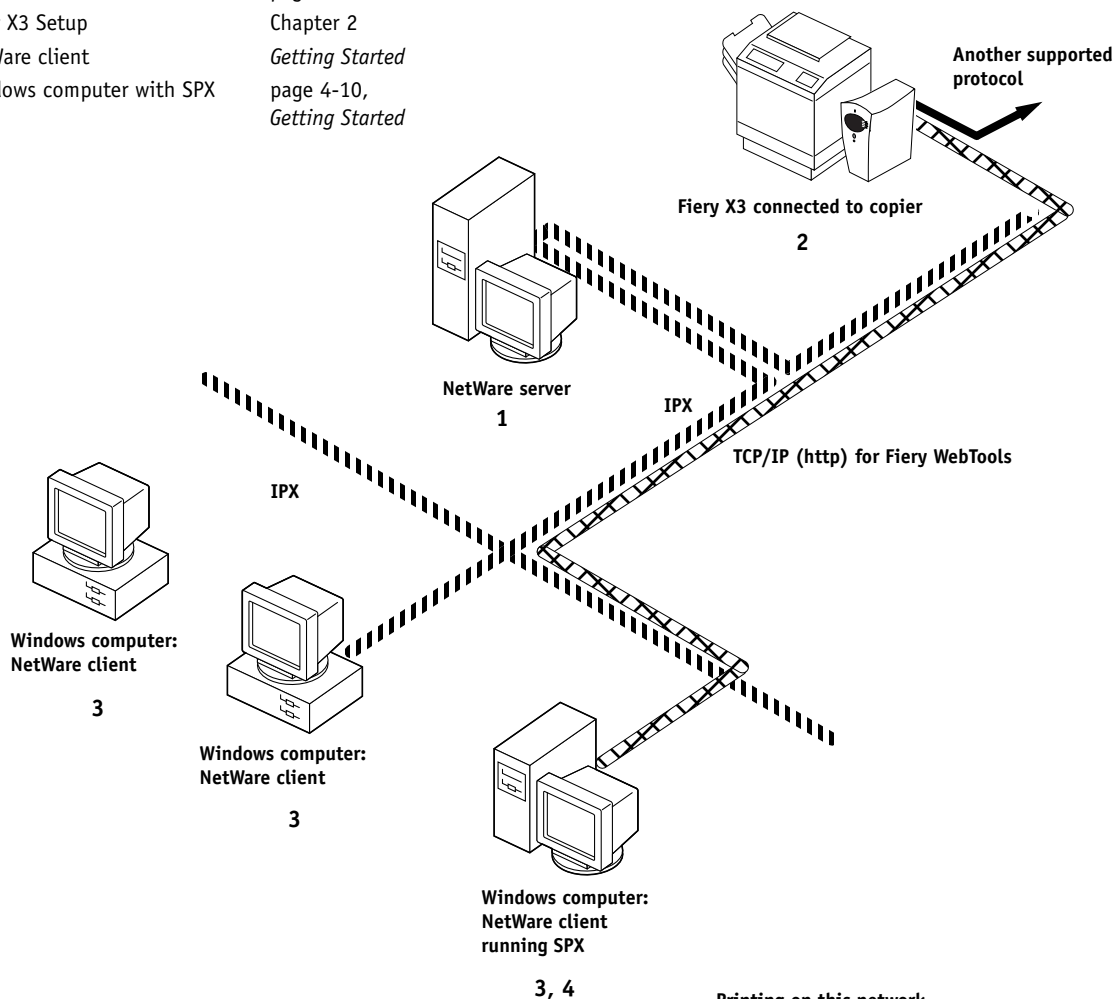
page 4-4

Chapter 2

Getting Started

page 4-10,

Getting Started



IPX protocol



SPX protocol (TCP/IP
or AppleTalk
possible)

Printing on this network

All Windows computers can print through the NetWare server.

For using Fiery WebTools

A Windows computer with TCP/IP (http) loaded.

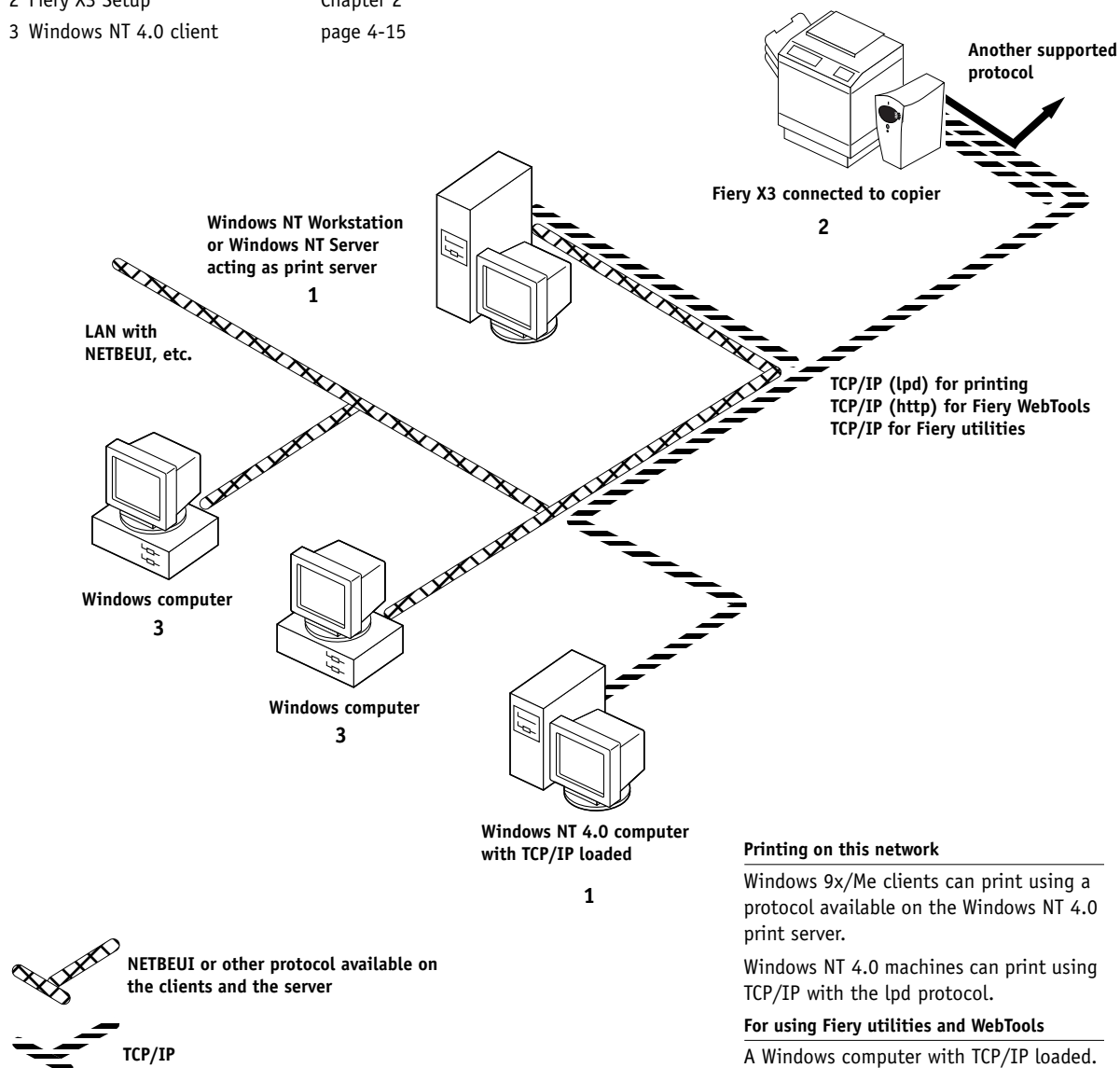
1

1-7 Quick path to installation

Windows NT Server environment

Key to setup:

- | | |
|-------------------------|-----------|
| 1 Windows NT 4.0 Server | page 4-12 |
| 2 Fiery X3 Setup | Chapter 2 |
| 3 Windows NT 4.0 client | page 4-15 |

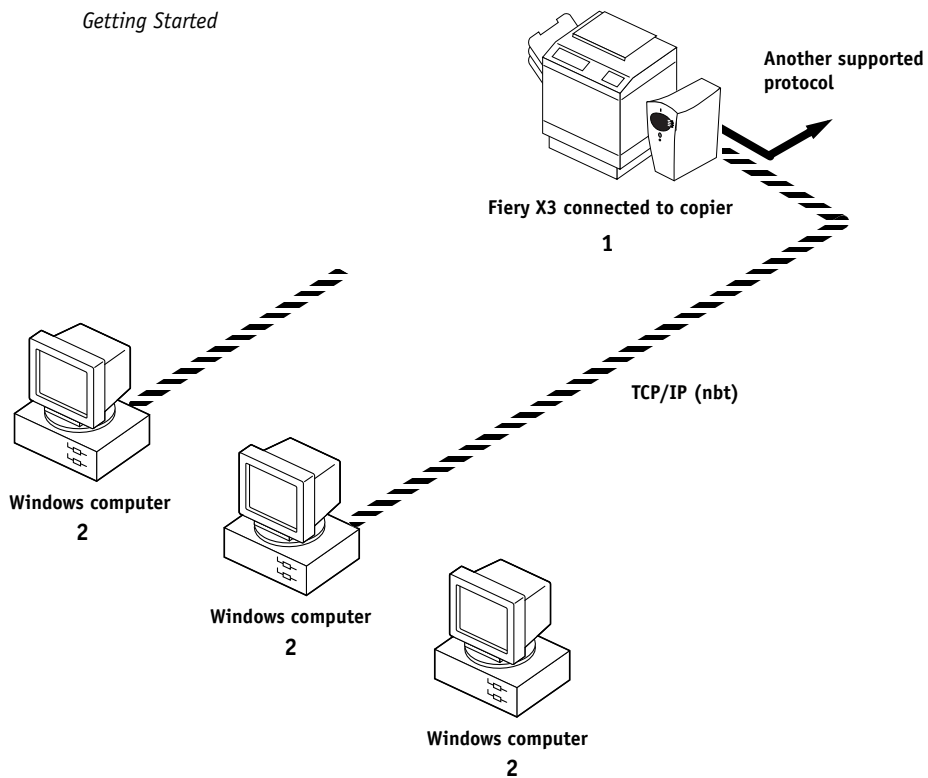


Windows computers using Windows (SMB) printing

Key to setup:

- 1 Fiery X3 Setup
- 2 Windows computer

Chapter 2
Getting Started



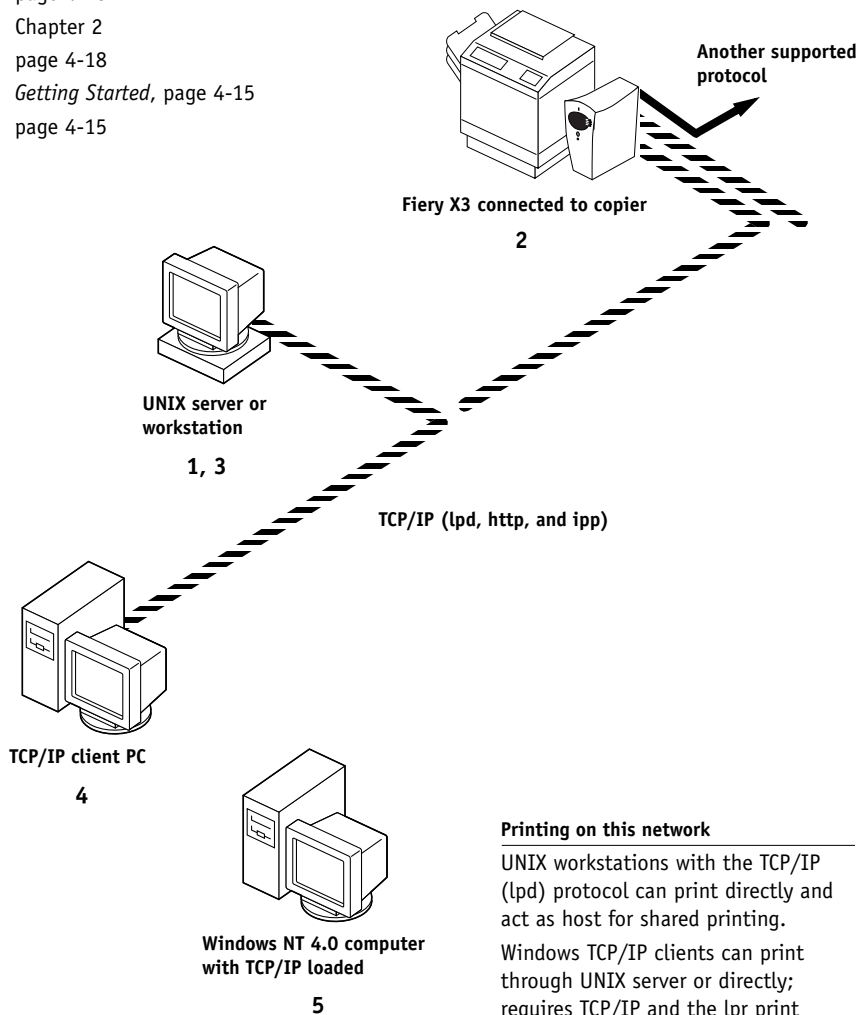
For Windows printing

Windows computers
Windows (SMB) printing enabled
on the Fiery X3

UNIX workstations and Windows NT 4.0 computers on a TCP/IP network

Key to setup:

- | | |
|-------------------------|------------------------------------|
| 1 UNIX server/host | page 4-18 |
| 2 Fiery X3 Setup | Chapter 2 |
| 3 UNIX workstation | page 4-18 |
| 4 TCP/IP client | <i>Getting Started</i> , page 4-15 |
| 5 Windows NT 4.0 client | page 4-15 |



Printing on this network

UNIX workstations with the TCP/IP (lpd) protocol can print directly and act as host for shared printing.

Windows TCP/IP clients can print through UNIX server or directly; requires TCP/IP and the lpr print service loaded.

For using Fiery WebTools

UNIX workstations are not supported.

Windows NT 4.0 computers need TCP/IP loaded.

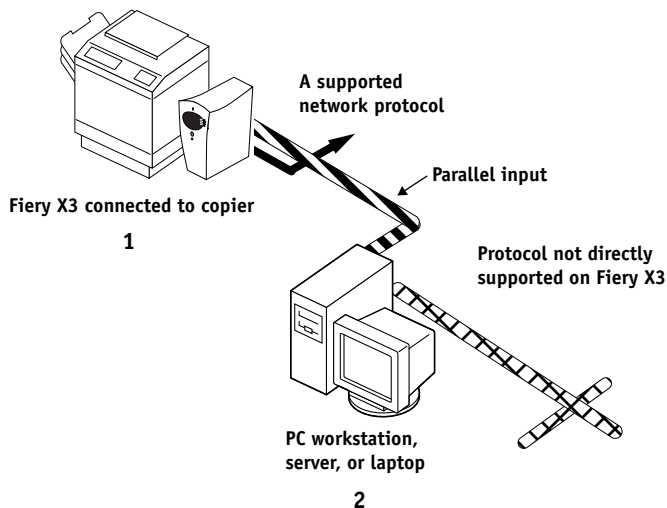
Fiery X3 parallel port connection

Key to setup:

- 1 Fiery X3 Setup
- 2 Windows computer

Chapter 2
Getting Started

With the parallel port enabled, the Fiery X3 can accept and print jobs sent to its parallel port.



The rest of this chapter and the next cover installation as performed on the Fiery X3 itself. This chapter describes the physical network connections; Chapter 2 summarizes Fiery X3 Setup and other administrative functions available from the Control Panel.

Before you begin

The following steps should be completed before you configure the Fiery X3 and the workstations that will print to the Fiery X3. A service technician will have performed some initial installation.

TO PREPARE FOR FIERY X3 CONFIGURATION

1. **Print a copier test page to make sure the copier is functioning normally.**
2. **Turn off the copier and connect the interface cable from the copier to the Fiery X3.**
3. **To confirm this connection, turn on the copier and the Fiery X3 and print a Test Page from the Control Panel.**

To print a Test Page, press the Menu button on the Control Panel to display the Functions menu. (See “Fiery X3 Control Panel” on page 2-3.) Choose Print Pages, and then Test Page.

4. **With both the copier and Fiery X3 turned off, connect the network cable to the Fiery X3, as described in the next section.**

The network should already be installed and operational.

5. **Turn on the copier and then the Fiery X3.**
6. **Prepare network servers to share Fiery X3 user software and to enable networked users to print to the Fiery X3, and proceed to Setup.**

See Chapters 2 and 3 for details.

Ethernet cable connection

The Fiery X3 supports Ethernet cabling of these types:

- Thicknet (thick coaxial Ethernet cable or 10Base5)

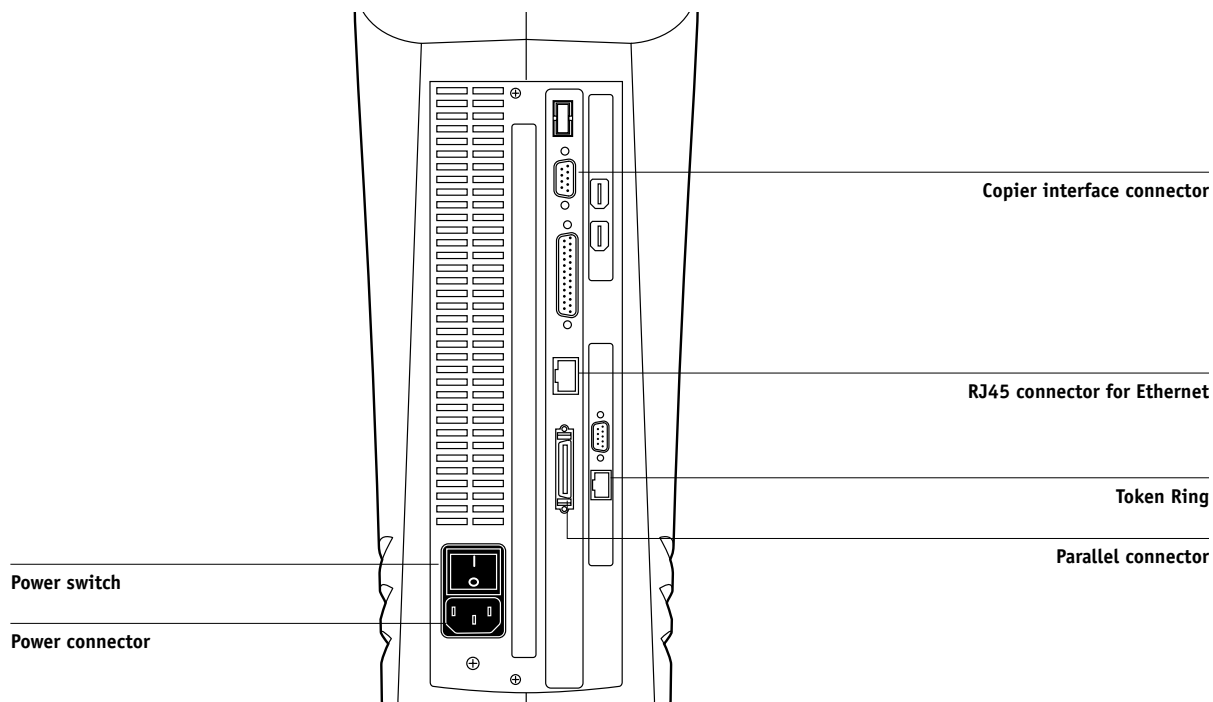
Connects directly to the AUI connector on the Ethernet interface of the Fiery X3.

- Unshielded Twisted Pair (UTP), defined as Category 5 for use with 100BaseT or defined as Category 3 or Category 5 for use with 10BaseT

Uses an 8-pin RJ-45 connector that plugs into the RJ-45 socket on the Fiery X3.

NOTE: The 100BaseT type supported by the Fiery X3 is 100BaseTX, also known as Fast Ethernet. If an Ethernet hub is used, it must be a 100BaseTX hub. The term “100BaseT” is used in this manual to refer to 100BaseTX.

Back view of the Fiery X3





Shut down the copier before attaching the Fiery X3 to any network device. Do not attach cables to more than one Ethernet connector; only one Ethernet connection can be made at any one time.

TO USE UTP CABLE FOR 100BASET OR 10BASET

1. **With the Fiery X3 turned off, connect the RJ-45 cable connector to the RJ-45 socket on the back of the Fiery X3.**
2. **Configure network servers for printing and then proceed to Setup.**

Parallel cable connection

In addition to receiving print jobs over Ethernet, the Fiery X3 can accept print jobs from a Windows computer through its high-speed parallel port. This connection is advantageous for portable computers and for workstations that use dedicated networks using protocols other than AppleTalk, TCP/IP, or IPX.

The parallel port connection can be active at the same time as the network ports.

TO USE PARALLEL CABLE

1. **With the Fiery X3 and the Windows computer turned off, attach the parallel cable to the parallel port of the Fiery X3.**
See the illustration on page 1-12 for the location of the parallel port.
2. **Connect the other end of the cable to the parallel port on the Windows computer.**
3. **Turn on the computer and the Fiery X3.**
4. **Proceed to Setup.**

To print to the parallel port, you need to set up the parallel port connection (see “Parallel Port Setup options” on page 2-13). For information on setting up printing, see *Getting Started*; for printing to the parallel port, see the *Printing Guide*.

Chapter 2: Setting up the Fiery X3

The Fiery X3 fits into a variety of work environments. To prepare for printing at your site, you need to do some initial configuration to specify the network environment and the kind of printing you will do.

About Fiery X3 Setup

When the copier is turned on after new system software is loaded, you (or the service technician who loads the software) choose the language you want to use for Control Panel menus and messages. After that, the Server, Network, Printer, PCL, PS, and Job Log Setups, in that order, can be configured from the Control Panel.

On Novell or Windows NT (using TCP/IP) networks, the network servers should be configured for printing to the Fiery X3 before you enter network settings on the Fiery X3. The diagrams on pages 1-5 through 1-10 give chapter references for Network Setup.

For Setup, you need a live network connection so the Fiery X3 can query the network for zones, servers, server-based queues, and other essential information. When you set an IP address, subnet mask, or gateway address for the Fiery X3 during Setup, you can allow the Fiery X3 to get these addresses automatically.

Whenever the configuration of the Fiery X3, a copier, or the network itself changes at your site, you can alter individual settings to correspond to the changed environment. Likewise, if printing needs or administrative requirements change, you can alter the corresponding settings.

NOTE: Changing network or port settings may require that you make changes in more than one Setup area.

Fiery X3 Setup from the Control Panel

Setup performed from the Control Panel after powering on or rebooting the Fiery X3 configures the Fiery X3 to communicate with other devices and manage print jobs sent to it.

Setup provides these groups of options:

- Server Setup to specify system options
- Network Setup to specify all the active network systems that will transmit print jobs to the Fiery X3
- Printer Setup to specify the way print jobs and queues are managed
- PS Setup to specify PostScript settings
- PCL (Printer Control Language) Setup to specify output defaults such as font source and paper size
- Job Log Setup to specify how the Fiery X3 handles its log of printed jobs

The Setup menus also allow you to set an Administrator password and clear the jobs queued on the Fiery X3.

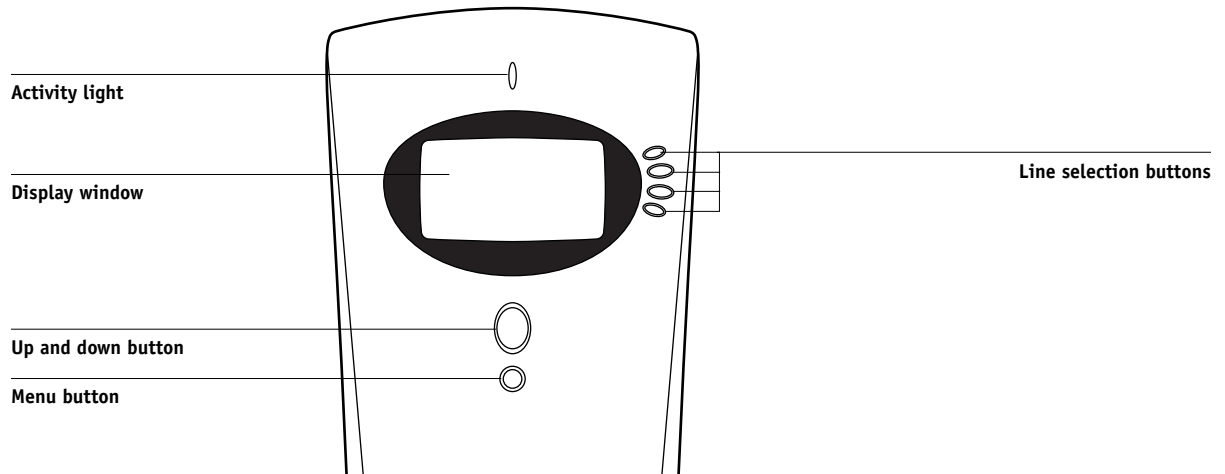
Accessing Setup options

The Control Panel on the front of the Fiery X3 enables you to set options and view information about jobs printed to the Fiery X3.

It includes the following parts:

- Display window showing status information and options for setting up the Fiery X3
- Line selection buttons
- Up and down button
- Menu button (escape)
- Activity light that indicates normal or problem activity

Fiery X3 Control Panel



The *Printing Guide* describes the online display screens in detail. This chapter describes only the menus you might see when performing Setup.

TO ACCESS SETUP WHEN THE FIERY X3 IS AT IDLE

1. When the Fiery X3 displays the Idle screen, press the Menu button on the Control Panel to go to the Functions menu.

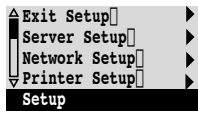


2. Scroll the menu and press the line selection button to choose Run Setup.

If an Administrator password has been set on the Fiery X3, you are prompted to enter it before you can perform Setup (see page 2-45).

3. Press the line selection button to choose a Setup menu or command.

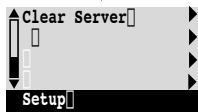
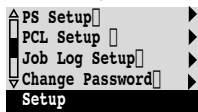
Press the down button to view the other screens of the main Setup menu.



4. Choose Setups in the same order as they appear in the menu: Server Setup, Network Setup, Printer Setup, PS Setup, PCL Setup, and then Job Log Setup.

The sequence is important for first-time Setup. Later, just go directly to the menu you want to change. However, if you make changes in Network Setup, you may need to change some settings in Printer Setup as well.

NOTE: If you make changes in Server, Network, or Printer Setup, you need to update the system configuration by opening and saving the other Setups even if you have not changed any other settings.



Review the settings described in this chapter. For more information on Control Panel screens other than those in Setup, see the *Printing Guide*.

About the Control Panel Setup interface

When you restart the Fiery X3 and choose Run Setup, you can select one menu after another and enter information about your Fiery X3 and your network and printing environment. In each Setup, the last line of the display window displays the name of the current Setup menu.

Types of Setup screens

There are two types of Setup options:

Multiple choice questions

You are given choices (for example, Yes or No, or a list of options from which to choose). Only one choice is displayed at a time, in highlighted text. The currently selected (or the default) value appears first.

Use the up and down arrow buttons to scroll through the choices, and choose OK when the correct information is displayed.

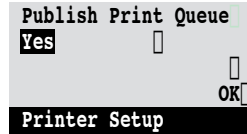
Information entry options

You must specify the information for your site, for example, the printer name or IP address. Use the up and down buttons to scroll the alphanumeric symbols to make your selection.

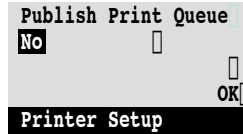
The cursor position is highlighted, and two of the line selection buttons become left and right buttons. Arrows appear on the display window next to the corresponding buttons. Use these buttons to move between positions for entering information.

NOTE: When you enter text, enter it from left to right, as the left-arrow button acts as a delete key as well as a cursor-moving key. This is indicated in the display by the delete symbol (⌫).

The following section provides three specific examples of these types of options.

Example: Multiple choice

Press up or down to display the other option or options.



When the setting you want is displayed, press the button beside OK to continue.

Example: Information entry with fields

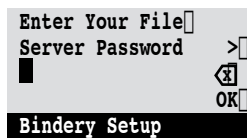
From the starting position, press the right-arrow button to move the cursor to the right.



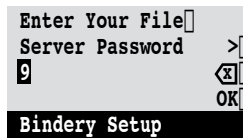
The next field is selected. Press up or down to change the number.



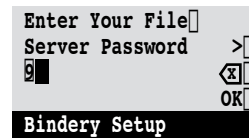
When the correct number is displayed, press the right-arrow button to move to the third field. Press the left arrow to go back and edit, or press OK to select the choice and continue.

Example: Information entry with individual characters

From the starting position, press up or down to enter the first character.



When the correct character is displayed, press the right-arrow button to move the cursor to the next position.



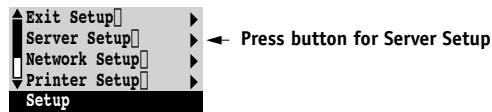
Press up or down to enter a character in the second position. The delete button erases the current character and moves the cursor to the left.

NOTE: If you make a mistake during Setup, you can always use the Menu button to cancel without saving changes. If you are viewing a Setup screen, pressing the Menu button cancels what you are doing in the current screen to bring you to the next higher-level menu. You may need to press Menu more than once to return to the top level for the particular Setup procedure with which you are working. Once at the top level, you can enter the current Setup again, or exit without making changes.

When you have entered all the settings or made all the changes you want, you need to save the changes. You are usually prompted to do so. If you choose Yes, your settings overwrite previous settings. If you choose No, your previous settings are retained. If necessary, the Fiery X3 reboots after you exit from the Setup menu.

Server Setup options

The Server Setup menu lets you specify system information that pertains to the Fiery X3 itself and all users. Accessing the menu is described on page 2-2.



When you choose Server Setup, the options appear in sequence, as described below. Default values, where applicable, appear in square brackets.

Server Name

Default server name

Use this option to give the Fiery X3 a name (up to 10 characters long). This is the name that will appear in the Chooser on an AppleTalk network.

If you have multiple Fiery X3 servers and give them the same name, a unique number is appended to the name that appears in the Chooser. Although this routes jobs correctly, it may be inconvenient to users and is not a recommended practice.

System Date

Use this option to change the system date. Enter the date in the standard form for your usage: either MM/DD/YY or DD/MM/YY. The date is used on the cover page and in Job Logs.

System Time

Use this option to change the system time. Enter the time based on the 24-hour clock in the form HH:MM (Hours:Minutes). The time is used on the cover page and in Job Logs.

Print Start Page**Yes/No [No]**

Use this option to specify whether the Fiery X3 should print a start page every time it is powered on or rebooted. The start page displays information about the Fiery X3, including the server name, current date, and time.

Use Character Set**Macintosh/DOS/Windows [Windows]**

Use this option to specify whether the Control Panel should use the Macintosh, DOS, or Windows character set for displaying filenames. This is important if filenames include accented or composite characters (such as é, ü, or æ).

For mixed-platform networks, choose the setting that gives the best overall representation of the special characters you use.

Enable Printed Queue**Yes/No [Yes]**

Select Yes if you want to enable the Printed queue, which creates a storage location on the Fiery X3 disk for recent jobs that were printed from the Print queue. Users with access to Fiery WebSpooler can reprint their own jobs from the Printed queue without sending them to the Fiery X3 again. If you select No, jobs are deleted from the Fiery X3 disk immediately after they are printed.

Jobs Saved in Printed Queue**1-99 [10]**

This option appears only if Enable Printed Queue is set to Yes. Specify the number of jobs to be stored in the Printed queue. Note that jobs in the Printed queue take up space on the Fiery X3 hard disk.

Clear Each Scan Job**After 1 week/ After 1 day/Manually/Now [After 1 day]**

Specify how you want to remove scanned data from the HDD. If you select Manually, the scanned data remains on the HDD until specifically deleted, or until all scanned jobs are cleared by the Administrator.

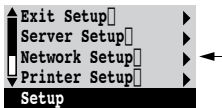
Save Changes**Yes/No [Yes]**

Select Yes to activate any changes made in the Server Setup; select No to return to the main Setup menu without making any changes.

Network Setup options

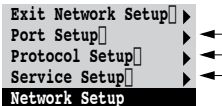
Network Setup configures the Fiery X3 to receive print jobs over the network systems that will be used at your site.

In the Setup menu, choose Network Setup.



In Network Setup, you specify network addresses and names to be used by workstations, servers, and the Fiery X3 when they communicate with each other.

The Network Setup menu includes three submenus that let you choose port types, protocols, and network services. You must perform Port Setup and enable at least one port.



For each item you enable, you are prompted to enter settings for that item. Default values, where applicable, appear in square brackets.

You need to display and select options only for the network systems that are currently used at your site. If your network requirements change, you can change the Network Setup at any time.

If the Fiery X3 is configured to enable more than one protocol, it automatically switches to the correct protocol when it receives a print job. When the parallel port and one or two network ports are enabled, print jobs can be received over all of those ports at the same time.

The available network types, and the Setup areas that pertain to them, are summarized in the following tables.

For this Network or Connection Type	Use this Port Setup	Use this Protocol Setup	Use this Service Setup
AppleTalk over Ethernet	Ethernet Setup	AppleTalk Setup	AppleTalk printing (PAP) is enabled automatically
TCP/IP over Ethernet	Ethernet Setup	TCP/IP Setup: Ethernet Setup	LPD Setup Web Services Setup Windows Setup Port 9100 Setup IPP Setup
IPX/SPX over Ethernet	Ethernet Setup	IPX/SPX Setup	PServer Setup (NDS, Bindery, or both)
Parallel	Parallel Port Setup	—	—

If the Token Ring option is installed, you have these additional options:

For this Network or Connection Type	Use this Port Setup	Use this Protocol Setup	Use this Service Setup
TCP/IP over Token Ring	Token Ring Setup	TCP/IP Setup: Token Ring Setup	LPD Setup Web Services Setup Windows Setup
IPX/SPX over Token Ring	Token Ring Setup	IPX/SPX Setup	PServer Setup (NDS, Bindery, or both)

TO ACCESS NETWORK SETUP OPTIONS

- 1. Confirm that the network cable is connected to the Fiery X3.**

During Network Setup, the Fiery X3 queries the network for zones, servers, and server-based queues. If you perform Network Setup without a connected and functioning network, default settings are used that may not meet your needs.

- 2. Choose Network Setup from the main Setup menu.**

- 3. Choose Port Setup from the Network Setup menu.**

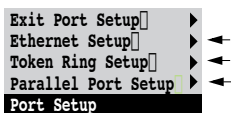
4. To use Ethernet, choose Ethernet Setup from the Port Setup menu, and enter the appropriate settings.
5. If the Token Ring option is installed, choose Token Ring Setup and enter the appropriate settings.
6. To print to the parallel port, choose Parallel Port Setup from the Port Setup menu, and enter the appropriate settings.
7. When you have finished entering port settings, choose Exit Port Setup and then choose Protocol Setup.
8. Enter the appropriate settings for the protocol or protocols you will use.
9. When you have finished entering protocol settings, choose Exit Protocol Setup and then choose Service Setup.
10. Enter the appropriate settings for the services you will use.

The options are described in detail in the following pages.

TO EXIT NETWORK SETUP

1. When you have finished entering service settings, choose Exit Service Setup, then Exit Network Setup.
2. Choose Yes when prompted to save changes.
3. From the main Setup menu, choose another Setup or choose Exit Setup.

Port Setup options



You can enable Ethernet or Token Ring (if the Token Ring option is installed), but not both at the same time. You can also enable parallel communication simultaneously with either Ethernet or Token Ring. To configure the Fiery X3, choose each port type you use and enter the settings for that port. Since network Setups are nested, the names of higher-level menus are shown in this chapter to the left of each menu heading.

Network Setup
Port Setup



Ethernet Setup

Enable Ethernet

Yes/No [Yes]

Select Yes if you have Ethernet cabling connected to the Fiery X3.

Ethernet Speed

Auto Detect/100 Mbps/10 Mbps [Auto Detect]

Select Auto Detect if your network environment is mixed, or select the speed of the network to which the Fiery X3 is attached.

Network Setup
Port Setup



Token Ring Setup

Enable Token Ring

Yes/No [No]

Select Yes if the Fiery X3 is to be connected to a Token Ring network.

Token Ring Speed

4 Mbps/16 Mbps/Auto Detect [Auto Detect]

Select Auto Detect if your network environment is mixed, or select the speed (4 Mbps or 16 Mbps) of the network to which the Fiery X3 is attached.

Max. Frame Size (bytes)

4202/2154/1130/632 [4202]

Select the maximum frame size recommended by the network administrator at your site. If you are uncertain of the setting to use, select the default value (4202).

Enable Source Routing

Yes/No [No]

Network Setup
Port Setup**Parallel Port Setup options**

You must enable the parallel port in order to enter the Parallel Port Setup options and print to the parallel port. For information about setting up the Windows computer for parallel port printing, see *Getting Started*.

Parallel Port Setup**Enable Parallel Port****Yes/No [No]**

Select Yes if you want to print through the parallel port. You can connect a single Windows computer to the parallel port and print directly to the Fiery X3.

Port Timeout in Seconds**5-60 [10]**

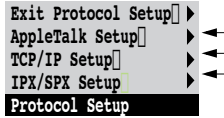
This option appears only if Enable Parallel Port is set to Yes. Your setting determines how long the Fiery X3 waits without receiving data from the parallel port before deciding that the current job is complete. Until the timeout, the Fiery X3 cannot receive new jobs through the parallel port, but it can continue to receive network print jobs.

Ignore EOF Character**Yes/No [Yes]**

This option appears only if Enable Parallel Port is set to Yes. This option specifies that the Fiery X3 should ignore end-of-file (EOF) messages in a file. This option must be set to Yes to print PostScript files in binary format (not ASCII); under normal circumstances, it should be set to No. When this option is set to Yes, the Fiery X3 uses the parallel port timeout value to determine when the end of the file has been reached.

When you have configured the port options, choose another port type, or choose Exit Port Setup and proceed to Protocol Setup.

Protocol Setup options



Network Setup
Protocol Setup

To configure the Fiery X3, choose each protocol and enter the settings for that protocol. You can enable AppleTalk, TCP/IP, and IPX/SPX communication simultaneously.

AppleTalk Setup

Enable AppleTalk

Yes/No [No]

Select Yes if you have an AppleTalk network connected to the Fiery X3. This setting enables the Fiery X3 to communicate over AppleTalk networks.

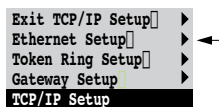
AppleTalk Zone

List of zones

The Fiery X3 searches the network for AppleTalk zones in your network segment. Scroll through the list to select the AppleTalk zone in which you want the Fiery X3 to appear. If your segment has only one zone, the Fiery X3 is assigned to that zone automatically.

The message “No AppleTalk zone found” may mean your network has no zones, or the network cable is not connected (see page 5-4). Choose OK.

TCP/IP Setup options



Enter the appropriate settings for the network type you use (Ethernet or Token Ring). Token Ring Setup appears as an option only if you have enabled Token Ring in Port Setup. If your network uses a gateway, enter the gateway address in Gateway Setup.

For information about setting up printing with TCP/IP, see Chapter 4.



Enter the appropriate settings for Ethernet.

For information about setting up printing with TCP/IP, see Chapter 4.

To configure the Fiery X3 for TCP/IP, choose TCP/IP Setup.

Enter the appropriate settings for the network type you use (Ethernet or Token Ring). Token Ring Setup appears as an option only if you have enabled Token Ring in Port Setup. If your network uses a gateway, enter the gateway address in Gateway Setup.

For information about setting up the network environment for printing with TCP/IP, see Chapter 4.

When you set an IP address, subnet mask, or gateway address for the Fiery X3 during Setup, you can allow the Fiery X3 to get these addresses automatically from a DHCP, BOOTP, or RARP server. First, turn on or reboot the Fiery X3 and allow it to reach Idle. Next, make sure the DHCP, BOOTP, or RARP server is running. Finally, perform Fiery X3 Setup.

TCP/IP Setup with Ethernet

Network Setup
Protocol Setup
TCP/IP Setup



Ethernet Setup

Enable TCP/IP for Ethernet

Yes/No [Yes]

Select Yes if you have a TCP/IP network connected to the Fiery X3 over Ethernet cabling. You must enable TCP/IP for Ethernet to use the Fiery WebTools over Ethernet.

NOTE: If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from workstations using TCP/IP protocols.

Enable Auto IP Configuration

Yes/No [Yes]

Select Yes to allow the Fiery X3 to obtain its Ethernet IP address by searching the network. Depending on your network and the protocol you select in the following option (DHCP, BOOTP, or RARP), the IP address can change. Select No to assign the Fiery X3 a static IP address, which will not change. If you select No, you proceed to the IP Address option, where you manually set the IP address.

Select protocol**DHCP/BOOTP/RARP [DHCP]**

This option appears only if you answered Yes to Enable Auto IP Configuration. Select the protocol over which the Fiery X3 should search for its IP address. Both DHCP and BOOTP allow the Fiery X3 to obtain the Ethernet IP address and Subnet Mask automatically. RARP obtains only the Ethernet IP address.

Depending on your network, the Fiery X3 might be assigned a different address after you reboot the Fiery X3. With the DHCP setting, the Fiery X3 can be assigned a different address even if it is not rebooted. Make sure the network is already configured properly for the protocol you select.

IP Address**[127.0.0.1]**

Enter the Fiery X3 IP address for Ethernet. This IP address, unlike an IP address set automatically, remains the same if you reboot the Fiery X3. You must change the default to a valid address for your network.

Subnet Mask**[255.255.255.0]**

This option lets you modify the subnet mask for printing with TCP/IP over Ethernet. The subnet mask is set to 255.255.255.0 by default. To set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

NOTE: Confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

Get Gateway Address Automatically**Yes/No [No]**

Use this option to get the gateway address automatically for printing with TCP/IP. This option appears only if you selected DHCP or BOOTP as the protocol (see page 2-16).

If you select a DHCP or BOOTP protocol and later change it to RARP, you must return to Gateway Setup and set Get Gateway Address Automatically to No. You can then set the address manually. This is because RARP does not support automatic assignment of the gateway address.

Gateway Address**[127.0.0.1]**

This option appears only if you answered No to Get Gateway Address Automatically, or if you selected RARP as the protocol.

Set the gateway address for printing with TCP/IP. After setting the gateway address, choose Exit TCP/IP Setup and proceed to Service Setup.

Network Setup
Protocol Setup
TCP/IP Setup



TCP/IP Setup with Token Ring

Enable TCP/IP for Token Ring, and enter the IP address and subnet mask. Then, if your TCP/IP network has a gateway, and users outside the gateway plan to print to the Fiery X3 using TCP/IP, choose Gateway Setup and enter the gateway address (see page 2-20).

Token Ring Setup

Enable TCP/IP for Token Ring

Yes/No [No]

Select Yes if you have a TCP/IP network connected to the Fiery X3 over Token Ring. This also enables use of the Fiery WebTools with Token Ring.

NOTE: If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from workstations using TCP/IP protocols.

Enable Auto IP Configuration

Yes/No [No]

Select Yes to allow the Fiery X3 to obtain its Token Ring IP address. Depending on your network and the protocol you select in the following option (DHCP, BOOTP, or RARP), the IP address can change. Select No to assign the Fiery X3 a static IP address, which will not change. If you select No, you proceed to the IP Address option, where you manually set the IP address.

Select protocol

DHCP/BOOTP/RARP [DHCP]

This option appears only if you answered Yes to Enable auto IP configuration. Select the protocol over which the Fiery X3 should search for its IP address. Both DHCP and BOOTP allow the Fiery X3 to obtain the Token Ring IP address and Subnet Mask automatically. RARP obtains only the Token Ring IP address.

Depending on your network, the Fiery X3 might be assigned a different address after you reboot the Fiery X3. With the DHCP setting, the Fiery X3 can be assigned a different address even if it is not rebooted.

Make sure the network is already configured properly for the protocol you select.

IP Address
[127.0.0.1]

Enter the Fiery X3 IP address for Token Ring. This IP address, unlike an IP address set automatically, remains the same if you reboot the Fiery X3. You must change the default to a valid address for your network.

Subnet Mask
[255.255.255.0]

This option lets you modify the subnet mask for printing with TCP/IP over Token Ring. The subnet mask is set to 255.255.255.0 by default. To set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

NOTE: Confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

Gateway Setup options

If your TCP/IP network has a gateway, and users outside the gateway print to the Fiery X3 using TCP/IP, choose Gateway Setup and enter the gateway address.

Network Setup
Protocol Setup
TCP/IP Setup



Gateway Setup

Get Gateway Address Automatically

Yes/No [No]

Use this option to get the gateway address automatically for printing with TCP/IP. This option appears only if you selected DHCP or BOOTP as the protocol (see page 2-16).

If you select a DHCP or BOOTP protocol and later change it to RARP, you must return to Gateway Setup and set Get Gateway Address Automatically to No. You can then set the address manually. This is because RARP does not support automatic assignment of the gateway address.

Gateway Address

[127.0.0.1]

This option appears only if you answered No to Get Gateway Address Automatically, or if you selected RARP as the protocol.

Set the gateway address for printing with TCP/IP. After setting the gateway address, proceed to set up Token Ring, if applicable, or choose Exit TCP/IP Setup and proceed to Service Setup.

Set the gateway address for printing with TCP/IP. After setting the gateway address, choose Exit TCP/IP Setup and proceed to Service Setup.

IPX/SPX Setup options

To configure the Fiery X3 for IPX/SPX protocols, choose IPX/SPX Setup from the Protocol Setup menu.

Enable IPX Auto Frame Type

Yes/No [No]

Choose Yes to select all available frame types, whether or not they are appropriate. To determine the frame types that were successfully bound, save your changes, exit Setup, and print a Configuration page. If you choose No, you proceed to Select Frame Types, where you can select frame types individually.

Select Frame Types

Choose Select Frame Types. You must choose at least one frame type to enable IPX/SPX protocols. The Fiery X3 supports these frame types: Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP.

The frame selection screen allows you to make multiple selections. Press the line selection button beside each frame type used on your IPX/SPX network. An asterisk (*) appears beside each selected frame type. (Press the line selection button again to deselect a frame type.) Use the arrow keys to scroll to additional frame types. The Fiery X3 binds to each frame type as you select it.

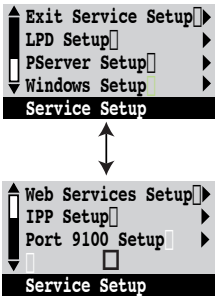
When you have selected all the frame types used, choose Exit IPX/SPX Setup.

Clear Frame Types

You can clear all frame types at once by choosing Exit IPX/SPX Setup, then choosing IPX/SPX Setup and selecting Clear Frame Types.

For protocols other than IPX/SPX, the frame type is automatically enabled and does not require setup, as follows:

With this protocol	And these printing services	This frame type is automatically enabled
AppleTalk	PAP (Printer Access Protocol)	Ethernet SNAP
TCP/IP with Ethernet	LPD (Line Printer Daemon)	Ethernet II
TCP/IP with Token Ring	LPD (Line Printer Daemon)	Token Ring SNAP



Service Setup options

Network Service Setup has options for TCP/IP and IPX/SPX networks, as well as for local area Windows printing.

- LPD Setup enables lpd printing on TCP/IP networks.
- For IPX/SPX networks, PServer Setup allows you to enter the names of the Novell objects that are concerned with Fiery X3 print jobs.
- Windows Setup enables the Microsoft SMB protocol, which supports peer to peer printing, also known as Windows printing.
- Web Services Setup enables the http protocol and, therefore, use of the Fiery WebTools.
- IPP Setup enables the Internet Printing Protocol.
- Port 9100 Setup allows users to download jobs to a print connection on the Fiery X3.

PServer is a program in the Fiery X3 that services all the Novell print queues assigned to the Novell print servers you have set up for printing to the Fiery X3. When you choose PServer Setup and enable PServer, you can set up NDS (Novell Directory Services), Bindery Services, or both. NDS is used with NetWare 4.x/5.x; Bindery Services are used with NetWare 3.x or with NetWare 4.x/5.x in bindery emulation mode.

LPD Setup

Network Setup
Service Setup
LPD Setup



Enable LPD
Yes/No [Yes]

Select Yes to allow lpd printing.

PServer Setup

Network Setup
Service Setup
PServer Setup



Enable PServer

Yes/No [No]

Select Yes if you have a Novell network connected to the Fiery X3.

Exit PServer Setup
NDS Setup
Bindery Setup
Polling Interval
PServer Setup



Choose NDS Setup if your network uses NetWare 4.x/5.x in native mode. Choose Bindery Setup if your network uses NetWare 3.x or uses NetWare 4.x/5.x in bindery emulation mode.

If your network uses *both* NDS and Bindery, set up NDS first. Setting up NDS after Bindery will overwrite Bindery Setup.

If your network uses both NDS and Bindery, and uses NetWare 4.x/5.x servers in bindery emulation, note that the Fiery X3 cannot service NDS and bindery emulation servers on the same NDS tree.

Network Setup
Service Setup
PServer Setup



NDS Setup

Before entering NDS settings, be sure the Fiery X3 is connected to the network and you have already configured an NDS directory tree with a Printer, a Print Server, and one or more Print Queue objects for Fiery X3 jobs (see page 4-7). To perform NDS Setup, you may need permission to browse the NDS tree. If access to the Print Server is restricted, you need a login password.

The main objective of NDS Setup is to specify the Print Server object. In addition, you can indicate the location of the Fiery X3 print queues.

Note that the terms NetWare server, Novell server, and IPX server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

Enable NDS

Yes/No [No]

Select Yes if the NetWare servers you will use to print to the Fiery X3 are running NetWare 4.x/5.x in native mode.

Select NDS Tree***List of trees***

Use the arrow keys to browse the list of NDS trees available to the Fiery X3. Choose OK when you have displayed the tree that contains the Printer, Print Server, and print queue objects you have previously defined for the Fiery X3.

Your new NDS tree selection automatically overwrites any previous tree selection. If you change the NDS tree selection and there are also current Bindery settings, you are alerted that they will be deleted. If you continue with NDS Setup, you can replace Bindery settings afterwards. If you do not want to continue, you can exit NDS Setup by pressing the Menu button to escape.

**Is user login needed
to browse NDS tree?****Yes/No [No]**

Select No if no password is required to browse the tree. You can proceed to navigate to the Print Server object (see page 2-25).

Select Yes if network permissions require that you log in to browse the NDS tree and see the Print Server object you want to select. If you select Yes, you are prompted to navigate to the User Login object.

**Navigate the NDS
tree to the User
Login object.**

This message is displayed if you selected Yes for the previous option. Choose OK and browse the NDS tree as described in the following paragraphs.

NDS Tree name
Object list, “..”

Browsing to find the User Login object begins with the NDS tree that you selected previously (with Select NDS Tree). Use the up and down buttons to scroll a list of objects in the tree beneath the [Root] in the hierarchy, or use the navigation symbol “..” to go up one level at a time.

In each subsequent browse screen, the top line represents your current location. The second line contains:

- A list of objects in the current container directly below your current location
- The symbol “..” to go up one level

With an object selected, choose OK to travel down the tree, or choose “..” to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects directly below it.

Continue to browse the NDS tree until the User Login object is displayed in the second line. Choose OK.

Enter Password

Enter the login password for the NDS tree, using the up and down arrow buttons to enter characters, and the left and right arrow buttons to move the cursor. Choose OK.

Navigate the NDS tree to the Print Server.

Press OK to browse the NDS tree to the Print Server object.

Browsing to find the Print Server object begins with the NDS tree that you selected previously (with Select NDS Tree). In each subsequent browse screen, the top line represents your current location. The second line contains:

- A list of objects in the current container directly below your current location
- The symbol “..” to go up one level

With a container object selected, choose OK to travel down the tree, or choose “..” to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects directly below it.

When the Print Server is displayed in the second line, choose OK.

Enter Print Server Password

Enter the Print Server password, using the up and down arrow buttons to enter characters, and the left and right arrow buttons to move the cursor. Choose OK. (If no password is required, choose OK.)

**Server should look
for print queues in:
Entire NDS Tree/Specified Subtree [Entire NDS Tree]**

By default, the Fiery X3 searches the entire NDS tree for Fiery X3 print queues. This option lets you restrict the search for Fiery X3 print jobs to a subtree (the Print Queue root) in which the Fiery X3 print queues have been defined. This makes the search more efficient. Select Entire NDS Tree if the tree is small. Select Specified Subtree to restrict the search and specify the subtree.

If you select Entire NDS Tree, choosing OK returns to PServer Setup. Proceed with Bindery Setup (see page 2-27), set the Polling Interval (see page 2-32), or choose Exit PServer Setup to return to the Service Setup menu.

**Browse to the root
of the Print Queue
subtree.**

This message is displayed if you selected Specified Subtree in the previous option. Choose OK to browse the NDS tree to the Print Queue subtree.

Browsing to find the Print Server object begins with the NDS tree that you selected previously (with Select NDS Tree). In each subsequent browse screen, the top line represents your current container. The second line contains:

- A list of objects directly below your current location
- The symbol “..” to go up one level
- The symbol “.” to select the current container object (displayed in the top line) without traveling down the tree

With an object selected, choose OK to travel down the tree, or choose “..” to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects contained within.

When the container that contains print queues is displayed in the second line, choose OK. In the next screen, choose “.” and then choose OK to select the object in the top line.

When the Fiery X3 displays the container name, choose OK to return to PServer Setup.

Proceed with Bindery Setup (see page 2-27), set the Polling Interval (see page 2-32), or choose Exit PServer Setup to return to the Service Setup menu.

Network Setup
 Service Setup
 PServer Setup



Bindery Setup options

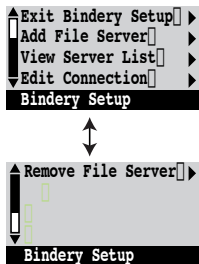
Bindery Setup

Use Bindery Setup if you have already configured one or more bindery servers (file servers running NetWare 3.12 or NetWare 4.x/5.x in bindery emulation) with a Print Server and a Print Queue for Fiery X3 jobs. Before entering bindery settings, be sure the Fiery X3 is connected to the network and the NetWare file server is running. You need a login name, and, if access to the file server or print server is restricted, you need a login password.

NOTE: The terms NetWare server, Novell server, and IPX file server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

Bindery Setup menu

Because you can set up more than one Novell server to handle Fiery X3 print jobs, an additional menu is displayed for this purpose. The options are:



- **Add File Server**—creates a new file server connection to the Fiery X3. You can set up a maximum of eight file server connections. After you have finished adding a new server, you return to the Bindery Setup menu, and you can set up another server if you wish.
- **View Server List**—displays the list of file servers that have already been selected to communicate with the Fiery X3.
- **Edit Connection**—lets you change the NetWare Print Server that will print to the Fiery X3.
- **Remove File Server**—lets you disconnect the Fiery X3 from a file server to which it is currently connected. Remove a file server when you want to reduce the number of connections to the Fiery X3 or re-assign the connection to a different NetWare file server.
- **Exit Bindery Setup**—after you added all servers, viewed a list of file servers, or removed a file server from the list.

NOTE: If you change your mind about any of the menus you have selected, you can use the Menu button to escape and return to the main Bindery Setup menu. To cancel all changes, you must exit Network Setup.

Network Setup ▶
Service Setup ▶
PServer Setup ▶
Bindery Setup ▶

Add File Server

This option gives you two ways to add a Novell NetWare file server.

Select File Server From List/Search by Name

You may select the file server from a scrollable list, or by a name search. Choose From List if your network does not have a large number of file servers. Select Search by Name if the number of file servers is so large that scrolling through the list would take a long time.

If you selected **From List:**

Add Server *List of all servers*

The Fiery X3 obtains a list of NetWare file servers by querying the IPX network. Use the up and down buttons to select a NetWare file server from the list. Choose the server on which you have configured a print server and print queue to handle Fiery X3 print jobs.

If you selected **Search by Name:**

Enter First Letters of Server Name

Use the up and down buttons to enter the first letters of the name of the file server you want to use, and choose OK.

Add Server *List of servers matching the search*

This option is displayed if you entered letters to search. Scroll to select the server you want from the list.

Once you have chosen a file server, the Fiery X3 immediately tries to log in as a guest without a password. If it succeeds, it skips to the NetWare Print Server option.

If you try to add a file server but all Fiery X3 connections are already being used, you are prompted to remove a file server (see “Remove File Server” on page 2-31).

File Server Login**administrator/supervisor/Enter Login Name [supervisor]**

This option appears only if a password is required for login, or if there is no unrestricted guest account. Choose Enter Login Name to enter your own login name and password or to log in as a guest. Choose administrator or supervisor if you have those privileges.

Enter Your Login Name**[guest]**

This option and the next only appear if you selected Enter Login Name for the File Server Login. Enter your login name or select guest.

Enter Your File Server Password

Enter the password for logging in to your NetWare file server.

NetWare Print Server***List of print servers on selected file server***

This option appears only if there is more than one print server defined on the selected Novell file server. From the list of print server names, select the name of the print server that you have configured in the NetWare utility PCONSOLE. This is the print server that will route print jobs to the Fiery X3 from computers on IPX networks.

Enter Your Print Server Password

This option appears only if your NetWare print server requires you to log in with a password. Enter your print server password.

Choose Add Server again until you have connected each NetWare file server you have configured for printing to the Fiery X3. When you have added all the IPX file servers for your site, choose Exit Bindery Setup.

- Network Setup ▶
- Service Setup ▶
- PServer Setup ▶
- Bindery Setup ▶

View Server List

Supported Servers

This option lets you view the list of file servers currently connected to the Fiery X3, that is, servers you have added in Bindery Setup. You are notified if there are none. When you choose OK, you return to the Bindery Setup menu.

- Network Setup ▶
- Service Setup ▶
- PServer Setup ▶
- Bindery Setup ▶

Edit Connection

On each connected NetWare file server, you have defined a print server to handle Fiery X3 print jobs. Use this option to change the print server assigned to the Fiery X3.

Choose File Server

File server name

From the list of connected NetWare file servers, choose the file server whose print server you wish to change.

NetWare Print Server

List of print servers on selected file server

Choose the name of the print server that you now wish to use. This is the print server that will route print jobs to the Fiery X3 from computers on IPX networks.

If you change your mind, press the Menu button to return to the Bindery Setup menu without making a change.

Enter Your Print Server Password

This option appears only if your NetWare print server is set up to require you to log in with a password.

The Bindery Setup menu is displayed again. You can edit other connections, choose another Bindery Setup option, or choose Exit Bindery Setup.

Network Setup ▶
Service Setup ▶
PServer Setup ▶
Bindery Setup ▶

Remove File Server

Remove support for *File server name*

Allows you to select a NetWare file server from a list of connected file servers and remove the connection to it. You are notified that you have removed the connection, and the Bindery Setup menu is displayed again. If you change your mind and do not want to remove any of the file servers, press the Menu button.

You can choose another Bindery Setup option (such as adding another file server) or choose Exit Bindery Setup and proceed to set the polling interval.

Network Setup ▶
Service Setup ▶
PServer Setup ▶
Bindery Setup ▶

Exit Bindery Setup

Choose Exit Bindery Setup after you have viewed a list of IPX file servers, removed a file server from the list, connected all the configured NetWare file servers, or set the polling interval. After you select Exit Bindery Setup, you return to the PServer Setup menu.

Polling Interval options

Whether you are using NDS or Bindery services, you may choose Polling Interval from the main PServer Setup menu. If you do not reset the interval, the default value of 15 seconds is used.

Network Setup
Service Setup
PServer Setup



NetWare Server Poll Interval 1-3600 [15]

Specify the interval, in seconds, at which the Fiery X3 communicates with the Novell print server to see if there are print jobs waiting.

NOTE: If you select a short interval, the amount of network traffic increases. This may slow down other network jobs.

Windows Setup

Network Setup
Service Setup
Windows Setup



Enable Windows Printing Yes/No [Yes]

Enabling Windows Printing enables SMB (Server Message Block), the file and printer sharing protocol built into Windows. Enabling SMB allows the Fiery X3 to be listed on the network so that Windows clients can print to a particular queue (Hold, Print, or Direct) on the Fiery X3 without any other networking software.

Broadcasts from SMB devices cannot pass across a router without a WINS name server. In the options that follow, you can specify whether to use a WINS name server. You can even have the Fiery X3 obtain the WINS name server IP address automatically.

For information on how to set up a Windows computer for Windows (SMB) printing, see *Getting Started*. Windows (SMB) printing runs over TCP/IP, so TCP/IP must be configured on all workstations that will use Windows (SMB) printing and on the Fiery X3 as well.

NOTE: Be sure the administrator configures the printer driver defaults *before* Windows NT 4.0 clients install the printer driver with Point and Print. The Fiery X3 Administrator name and Password are required during Point and Print installation if you want to change defaults for the Windows NT 4.0 printer driver.

Use Automatic Configuration

Yes/No [Yes]

This option appears if you chose DHCP or BOOTP as the protocol for automatically obtaining the IP address of the Fiery X3 (see page 2-16).

Choose Yes to have the Fiery X3 use a WINS name server and automatically obtain its IP address. After making your choice, you proceed to the Server Name option.

Choose No to proceed to the Use WINS Name Server option, where you specify whether to use a WINS name server, and then to the WINS IP Address option, where you specify its IP address.

Use WINS Name Server

Yes/No [No]

Setting up the WINS name server is outside the scope of this manual. To find out if a name server is available, contact your network administrator.

WINS IP Address

This option appears only if you chose Yes for Use WINS Name Server. Enter the IP address of the WINS Name Server.

Server Name

Default name

The server name is the name that will appear on the network for accessing the Fiery X3 via SMB. This name can be up to 15 characters long. The default name is the same as the server name assigned in Server Setup (see page 2-7).

Server Comments

Server comments (optional) can contain information about the printer. These comments are listed in the Properties of the Fiery X3 in Network Neighborhood. Comments can be up to 15 characters long.

Set Domain name

Select from list/Enter Manually [Select from list]

This option provides two ways to specify the workgroup or domain where you want the Fiery X3 to appear.

If you selected **Select from list:**

Choose Domain

List of domains

Select the workgroup or domain from the list.

If you selected **Enter manually:**

Workgroup or Domain

Enter the name of the workgroup or domain. For more information about entering text and characters, see “Types of Setup screens” on page 2-5.

Web Services Setup

- Network Setup ▶
- Service Setup ▶
- Web Services Setup ▶

Enable Web Services

Yes/No [No]

Select Yes if TCP/IP is enabled on the Fiery X3 and on user workstations, and you wish to make the Fiery WebTools available to users (see page 4-16). The Fiery WebTools include Fiery WebSpooler, Status, Installer, WebDownloader, WebScan, WebSetup, and WebLink. A Java-enabled Web browser and a valid IP address are required for each user. See *Getting Started* for details on browser versions and workstation requirements.

IPP Setup

- Network Setup ▶
- Service Setup ▶
- IPP Setup ▶

Enable IPP

Yes/No [Yes]

Select Yes to enable printing with the Internet Printing Protocol (IPP). You must enable Web Services. For information on setting up user computers to use IPP printing, see *Getting Started*.

NOTE: IPP Printing is supported on Windows 98/Me and Windows 2000 only.

Network Setup
Service Setup
Port 9100 Setup



Port 9100 Setup

Enable Port 9100 Yes/No [Yes]

This option allows application programs to open a TCP/IP socket to the Fiery X3 at Port 9100 to download a print job.

Port 9100 Queue Direct/Print Queue/Hold Queue [Print Queue]

Specify the Fiery X3 print connection for downloading jobs to Port 9100. Only the print connections you have enabled in Printer Setup are available.

Exit Service Setup

This returns you to the main Network Setup menu. Choose Exit Network Setup.

Save Changes Yes/No [Yes]

Select Yes to activate any changes made in Network Setup; select No to return to the main Setup menu without making any changes.

Fiery X3 print connections

In Fiery X3 Printer Setup you decide how the Fiery X3 manages print jobs by deciding which printing connections should be “published” to users over the network. All published connections are constantly checked for the presence of jobs. If you do not want users to print to a connection, do not publish it.

You can publish two types of connections on the Fiery X3: the Direct connection and queues. At least one connection to the Fiery X3 must be published.

Direct connection

Jobs are transmitted to the Fiery X3 Direct connection only when the Fiery X3 is ready to print. They remain at the sending workstation until the Fiery X3 is ready, and are processed as soon as a prior job is finished, before the next queued job is processed.

Jobs sent to the Direct connection are not stored on the Fiery X3 hard disk. The jobs appear in the Fiery WebSpooler displays of current jobs, but they cannot be selected for reprinting, moving, or deletion. Therefore, the Direct connection provides a measure of security for sensitive jobs. If you plan to download fonts to the Fiery X3 via the network, you must publish the Direct connection.

NOTE: You cannot use the Direct connection for lpd printing over TCP/IP. You can, however, use the Direct connection for downloading fonts.

Queues

A queue is a storage area for print jobs. Queues are particularly useful when many print jobs are being sent to the Fiery X3. When a job is printed to a Fiery X3 queue, it is stored on the Fiery X3 hard disk rather than the user's hard disk, quickly freeing up the user's workstation.

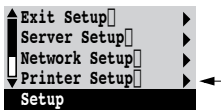
Users can print only to published connections. However, job storage areas for all queues exist on the Fiery X3, so that administrators or other users of Fiery WebSpooler can move or copy jobs to the Print or Hold queue, whether or not these queues are published.

The Fiery X3 hard disk supports up to three queues (Print, Hold, and Printed). Users may print to two of them (Print and Hold).

- **Print queue**—This is the standard Fiery X3 queue. The Fiery X3 prints jobs from the Print queue in the order in which they were received.
- **Hold queue**—The Hold queue can be used for storing jobs that will be printed at a later time, and jobs that will be printed repeatedly. The Hold queue requires some administration. In order to print a job sent to the Hold queue, the job has to be moved or copied from the Hold queue to the Print queue. Printing and deleting jobs from the Hold queue requires Fiery WebSpooler.
- **Printed queue**—The Printed queue is a job storage area on the Fiery X3 disk; it contains the most recent jobs printed from the Print queue. The Printed queue makes it convenient to reprint those jobs. A Server Setup option enables this queue and governs the maximum number of jobs retained in it at any given time (see page 2-8). Reprinting jobs in this queue requires Fiery WebSpooler.

Printer Setup options

Printer Setup configures the connections and printing behavior associated with a particular printing device.



1. In the main Setup menu, choose **Printer Setup**.
2. Enter the settings appropriate to the network printing environment.
3. When you have finished, save changes.

Printer Setup includes:

- Publishing the Direct connection and Print and Hold queues
- Specifying the default page description language
- Specifying the Fiery X3 connection for parallel jobs when a parallel connection is enabled

In the list of options that follows, default values, where applicable, appear in square brackets.

Publish Direct Connection**Yes/No [Yes]**

This option enables users to print (or download) jobs to the Fiery X3 without spooling. Jobs printed to the Direct connection are not saved in the Printed queue.

If you plan to download fonts to the Fiery X3, you must publish the Direct connection.

Publish Print Queue**Yes/No [Yes]**

This option enables users to print (or download) jobs to the Print queue. Jobs printed to the Print queue are spooled to the Fiery X3 disk and printed on a first-in, first-out basis. Only the connections published in Printer Setup are available to users.

- To print to the Fiery X3 over a TCP/IP network, you must publish either (or both) the Print queue and the Hold queue.
- To print to the Fiery X3 over the parallel port, you must publish a queue or publish the Direct connection.

Publish Hold Queue**Yes/No [Yes]**

Use this option to enable users to print (or download) jobs to the Hold queue. Jobs in the Hold queue can be printed only by copying or moving them to the Print queue with Fiery WebSpooler.

Personality**Auto/PCL/PostScript [Auto]**

In PCL or PostScript mode, the Fiery X3 is restricted to PCL or PostScript jobs, respectively. Jobs sent to the Fiery X3 that do not match the personality selected on the Fiery X3 are not printed. In Auto mode, the Fiery X3 switches to the appropriate page description language for each job. See “PCL Setup options” on page 2-41 and “PS Setup options” on page 2-39 for more information. Also see the *Printing Guide*.

Save Changes**Yes/No [Yes]**

Select Yes to activate any changes made in the Printer Setup; select No to return to the main Setup menu without making any changes.

PS Setup options

PS (PostScript) Setup options allow you to set defaults for Fiery X3 behavior. Most of these defaults can be overridden from within an application.

TO ACCESS POSTSCRIPT SETUP OPTIONS

1. In the main Setup menu, choose **PS Setup**.
2. Enter the options appropriate to the printing requirements at the site.
3. When you have finished, save changes.

In the list of options that follows, default values, where applicable, appear in square brackets.

Default Paper Sizes**US/Metric [US in the United States, Metric elsewhere]**

Specify whether to print on US paper sizes (for example, letter, legal, tabloid), or Metric paper sizes (for example, A4, A3) by default. When no page size is defined within a PostScript file, jobs are printed on Letter paper if you selected US, or A4 paper if you selected Metric.

Convert Paper Sizes**No Letter/11x17->A4/A3 A4/A3->Letter/11x17 [No]**

Specify whether to convert paper sizes in documents automatically to the default paper sizes specified. For example, if you select Ltr/11 x 17->A4/A3, a letter size document is automatically printed on A4 paper. If you select No, the Fiery X3 prints the document only if it finds a media source in the size specified by the file.

Print Cover Page**Yes/No [No]**

Use this option to specify whether the Fiery X3 prints a cover (job summary) page at the end of each print job. If you select Yes, each print job is followed by a page containing the name of the user who sent the job, the document name, the server name, the time the job was printed, the number of pages printed, and the status of the job. If a PostScript error occurred and the Print to PS Error option is set to Yes, the status entry will be the PostScript error message.

Allow Courier Substitution**Yes/No [Yes]**

Specify whether to substitute Courier for fonts that are unavailable when you download PostScript files to the Fiery X3, or when you print a document for which you do not have the corresponding printer font. If this option is set to No, jobs with fonts that are not available on the Fiery X3 hard drive generate a PostScript error and do not print.

Print to PS Error**Yes/No [No]**

Use this option to specify whether the Fiery X3 should print the available portion of a print job when it encounters a PostScript error. Select Yes to print the portion of the job that was processed before the error occurred; select No to cancel the print job entirely when a PostScript error is encountered. Leave this option at No unless you encounter printing problems.

Save Changes**Yes/No [Yes]**

Select Yes to activate any changes made in PS Setup; select No to return to the main Setup menu without making any changes.

PCL Setup options

PCL (Printer Control Language) printer drivers are provided with the Fiery X3 on the User Software CD. PCL Setup allows you to set defaults to control printer output. These defaults can be overridden by the user from within an application, but they determine how a job will be printed in the absence of other information.

NOTE: PCL printing is supported for Windows computers only. Mac OS computers must use the PostScript driver.

TO ACCESS PCL SETUP OPTIONS

1. In the main Setup menu, choose **PCL Setup**.
2. Enter the options appropriate to the printing requirements at the site.
3. When you have finished, save changes.

In the list of options that follows, default values, where applicable, appear in square brackets.

Paper Size

Letter/A4/11x17/A3 [Letter in the United States, A4 elsewhere]

This option sets the size of the print area on the paper, not the size of the paper itself.

Default Orientation

Portrait/Landscape [Portrait]

This option determines whether the text or image will be oriented along the short edge of the paper (portrait) or along the long edge of the paper (landscape).

Form Length (lines)

5-128 [60]

This option sets the number of lines to be printed per page.

Font Size (pt)

4.0-999.75 [12.00]

When the number selected in Font Number represents a proportionally spaced scalable font, the Font Size option appears, allowing you to determine the point size (height) of the default font.

Font Pitch (char/in)**0.44-99.99 [10.00]**

When the number selected in Font Number represents a fixed pitch scalable font, the Font Pitch option appears, allowing you to determine the width of scalable type. Pitch is measured by characters per inch, so 10-pitch type fits ten characters per inch.

Symbol Set**ASCII/Roman-8/ECMA-94 L1/PC-8... [Roman-8]**

This option lets you choose the symbol set that best matches the needs of users printing to the Fiery X3.

Font Number**0-999 [0]**

The font number designates the default font for the Fiery X3.

To determine font numbers, print the internal PCL Font List. At the Control Panel, press the Menu button to access the Fiery X3 main menu. Choose Functions, select Print Pages, and press PCL Font List. The standard fonts are listed in order. The font numbers, however, are not displayed.

Paper Size for System Pages**US/Metric [US in United States, Metric elsewhere]**

This option sets the size of the print area on the paper, not the size of the paper itself. System pages are pages that you can print from the Control Panel. They include PS Test Page, PCL Test Page, Configuration, Job Log, PS Font List, and PCL Font List. For information about how to print these pages, see page 2-46.

Save Changes**Yes/No [Yes]**

Select Yes to activate any changes made in PCL Setup; select No to return to the main Setup menu without making any changes.

Administrative functions in the Setup menu

The remaining options in the Setup menu allow you manage print jobs but are not required for printing:

- **Job Log Setup** allows you to specify whether the Fiery X3 prints and clears its log of printed jobs automatically. See the next section for details.
- **Change Password** enables you to create or change an administrator password on the Fiery X3 so that casual users cannot enter the Setup menus and change Fiery X3 settings without permission. In addition, an administrator password controls remote job management functions via Fiery WebSpooler. A password created using the Setup menu prevents Fiery X3 users from reprinting print jobs, moving print jobs (changing their priority or their queue), and deleting or configuring jobs other than their own. See the *Printing Guide* for details.

The administrator password also controls printer driver defaults for printer drivers installed with Point and Print on Windows NT 4.0 clients. For information on installing printer drivers with Point and Print, see *Getting Started*.

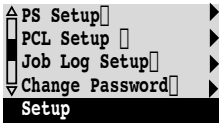
- **Clear Server** clears all queued print jobs from the server—jobs in the Fiery X3 Print, Hold, and Printed queues. The Job Log is cleared at the same time. If an administrator password has been set, unauthorized users will not see this command (or any of the administrative or Setup options).

Job Log Setup options

The Job Log is a record of all jobs processed or printed on the Fiery X3, whether they originate from a user workstation, a networked server, the Fiery X3, or a computer attached to the parallel port. The Job Log can be printed at any time from the Fiery X3 or remotely from a workstation running Fiery WebSpooler.

The printed Job Log lists accounting information about each job including user name, document name, time and date printed, and number of pages. Users printing from Windows 9x/Me and Mac OS computers can also enter job-specific notes that appear in the Job Log. See the *Printing Guide* for details.

By default, the Job Log is not printed or cleared automatically. You can change these defaults in Job Log Setup. You can also clear the Job Log from Fiery WebSpooler.

TO ACCESS JOB LOG SETUP OPTIONS

1. Scroll the main Setup menu and choose Job Log Setup.
2. Enter the options as described in the following section.
3. When you have finished, save changes.

Default values for the following options, where applicable, appear in square brackets.

Auto Print Job Log Every 55 Jobs**Yes/No [No]**

Use this option to specify whether you want the Fiery X3 to print the Job Log after every 55 jobs. Set the Job Log for automatic printing if accounting for each printed page is important at your site.

Auto Clear Job Log Every 55 Jobs**Yes/No [No]**

Use this option to specify whether to clear the Job Log after every 55 jobs. If you do not enable this option, and do not clear the Job Log from the Fiery X3 or from Fiery WebSpooler, the Fiery X3 saves a record of all jobs.

NOTE: In addition to Auto Clearing or manual clearing through Fiery WebSpooler, the Job Log (together with all queued jobs) is also cleared when you choose Clear Server from the main Setup menu, when system software is reinstalled, or when a new version of system software is installed on the Fiery X3.

Job Log Page Size**Tabloid/A3 Letter/A4 [Tabloid/A3]**

Select the paper size for printing the Job Log. Regardless of page size, 55 jobs are listed on a page. The paper size used depends on the Default Paper Sizes setting in PS Setup. If the Default Paper Sizes setting is US, the Job Log is printed on tabloid or letter size paper, with tabloid the default.

Save Changes**Yes/No [Yes]**

Select Yes to activate any changes made in Job Log Setup; select No to return to the main Setup menu without making any changes.

Change Password

Change Password enables you to set or change the Administrator password for the Fiery X3. This password determines whether a user can modify the Setup options.

When the Fiery X3 is installed, there is no password. If you do not create an Administrator password, users are not required to enter a password to modify Setup.

If an Administrator password has been set previously, you are required to enter it right after Start Up, when you choose Run Setup. Use the up and down buttons to select the characters and the left and right arrows to move between them (see page 2-4).

TO CHANGE THE FIERY X3 PASSWORD

1. **Scroll the main Setup menu and choose Change Password.**
2. **Enter and confirm the password as described in the following section.**

New Password

The password can be any combination of letters and numbers up to 19 characters. Choose OK when you are done. Be sure to keep track of the password.

NOTE: The only way to remove a password that you cannot remember is to reinstall system software.

Verify New Password

Enter the new password again exactly as before to verify that you have entered it correctly. The new password is effective until you change it again.

Clear Server

Clear Server enables you to clear all queued print jobs from the Fiery X3—jobs in the Fiery X3 Print, Hold, and Printed queues. The Job Log is cleared at the same time. If you keep Job Logs, be sure to print or export the Job Log before you choose Clear Server.

Scroll the main Setup menu and choose Clear Server. You are asked to confirm your selection. Jobs can also be deleted, individually or as a group, from Fiery WebSpooler.

Exit Setup

Choose Exit Setup from the main Setup menu when you have finished making Setup changes. The Fiery X3 will reboot. All changes will be saved on restart.

Printing the Configuration page

The Configuration page lists all the settings in effect for the current Setup. After you have performed Setup, print a Configuration page to confirm your settings.

TO PRINT THE CONFIGURATION PAGE

1. **At the Control Panel, press the Menu button to access the Functions menu.**
2. **Choose Print Pages.**

The Control Panel displays the pages you can print. To see the remaining types of pages, scroll down using the down arrow button.

3. **Select Configuration.**

Post the current Configuration page near the Fiery X3 for quick reference. Users need the information on this page, such as the current printer default settings.

Chapter 3: Setting up the Fiery X3 from a Windows Computer

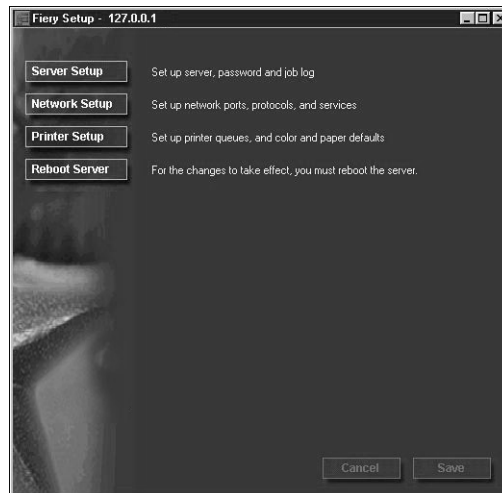
After you have performed initial Setup (Server, Network, and Printer Setup) from the Control Panel, you can complete or change most Setup options from a Windows computer.

Accessing Setup

You can access Fiery X3 Setup from Fiery WebSetup.

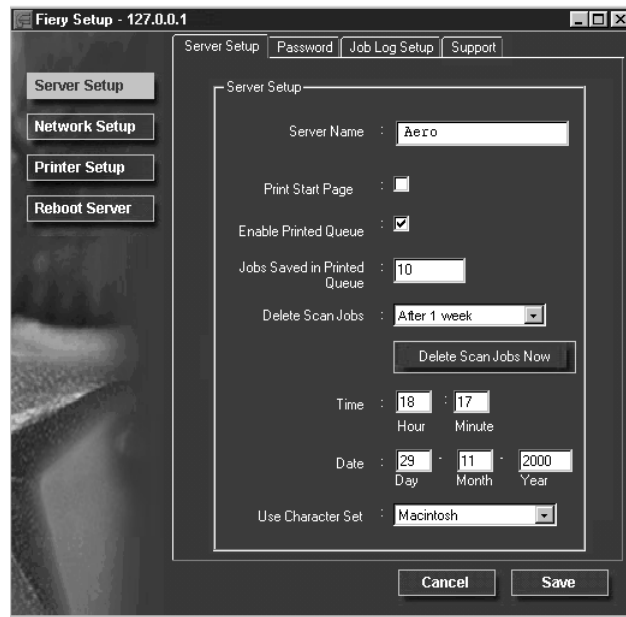
TO ACCESS FIERY WEBSETUP

1. Start your Internet browser application and enter the IP address of the Fiery X3.
2. Log in as Administrator.
3. When the Fiery X3 home page appears, click the WebSetup button.



Server Setup

From this window, you can access Server Setup, Passwords, Job Log Setup, and Support.



Server Setup

Server Name—Specify a name for the Fiery X3. This is the name that appears in the Chooser on an AppleTalk network.

NOTE: Do not use the device name (65BW-M Pro) as the server name. Also, if you have more than one Fiery X3, do not give them the same name. Windows NT does not support two computers with the same name in the same workgroup or domain.

Print Start Page—Specify whether the Fiery X3 should print a start page when it is turned on or rebooted. The Start Page displays information about the Fiery X3, including server name, the current date and time, amount of memory installed, last calibration date, network protocols enabled, and print connections published.

Enable Printed Queue—Specify whether to enable the Printed Queue, a storage location on the Fiery X3 disk for recently printed jobs. You can reprint jobs from the Printed queue without sending them to the Fiery X3 again. If the Printed queue is not enabled, jobs are deleted from the Fiery X3 disk immediately after they are printed.

Jobs Saved in Printed Queue—Specify the number of jobs to be stored in the Printed Queue. Jobs in the Printed queue take up space on the Fiery X3 hard disk.

Date & Time—Specify the system date and time, which are used on the cover page and on Job Logs.

Delete Scan Jobs—Specify how often to delete scan jobs from the Fiery X3 hard disk. Use the “Delete Scan Jobs Now” button to delete scan jobs now.

Use Character Set—Specify whether the Control Panel and the job management tools should use the Macintosh, DOS, or Windows character set for displaying filenames. This is important if a filename includes accented or composite characters (such as é or æ). For mixed-platform networks, select the setting that gives the best overall representation of the special characters you use.

Passwords

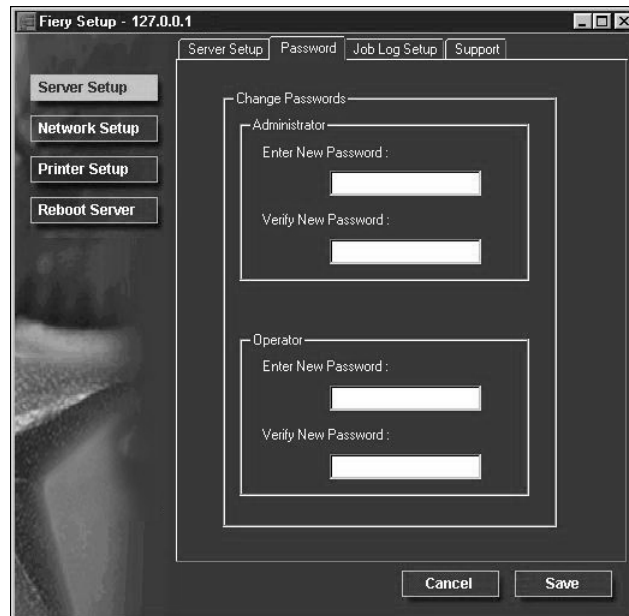
You can set, change, and remove passwords for the Fiery X3. Keep careful track of the passwords you set for each.

Administrator—Controls access to Setup; Administrator privileges also include Operator privileges.

NOTE: The administrator password also controls printer driver defaults for printer drivers installed with Point and Print on Windows NT 4.0 clients. For information on installing printer drivers with Point and Print, see *Getting Started*.

Operator—Controls access to job management functions via the job management tools.

By default, *no* passwords are set. If you do not specifically set passwords, all users will have access to important functions such as Setup (including setting passwords) and job control. It is strongly recommended that you set at least an Administrator password to protect the Fiery X3 from unauthorized changes to Setup.



TO SET OR CHANGE A PASSWORD

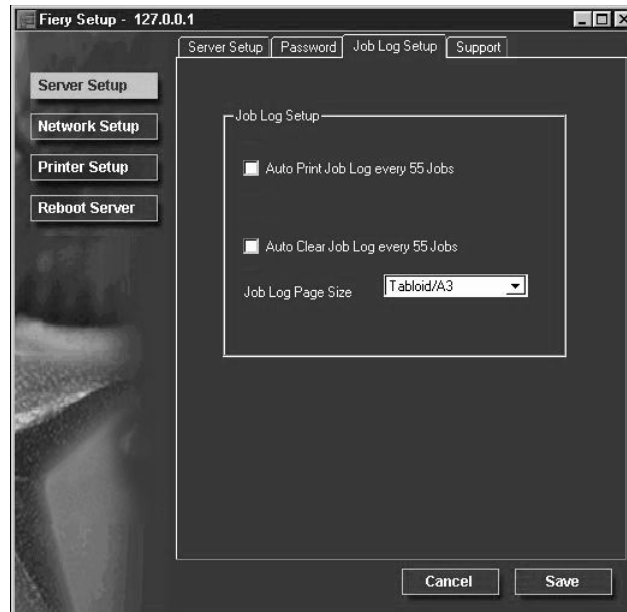
1. **Select the password you want to change.**
2. **Type the password in both the Enter New Password and the Verify New Password fields.**
Passwords are case-sensitive and can be any combination of letters and numbers up to 19 characters. You must enter the password *exactly* the same way both times. The new password remains in effect until you change it again.

TO REMOVE A PASSWORD

1. **Select the password you want to delete.**
2. **Delete the asterisks (*) in both the Enter New Password and the Verify New Password fields.**

If you forget the Administrator password, contact your authorized service representative to reinstall Fiery X3 system software. This clears the Administrator password and allows you to set a new one.

Job Log Setup



Auto Print Job Log Every 55 Jobs—Specify whether the Fiery X3 prints the Job Log after every 55 jobs. The Job Log lists the last 55 jobs processed on the Fiery X3, with accounting information about each one, including user name, document name, time and date printed, number of pages, and other job information.

Auto Clear Job Log Every 55 Jobs—Specify whether the Fiery X3 clears the Job Log after every 55 jobs. If you do not turn on this option, the Fiery X3 saves a file containing a record of all jobs ever printed. Since this file takes up space on the Fiery X3 hard disk, clearing the Job Log frees up additional disk space.

You can clear the Job Log manually at any time from the job management tools. The Job Log is also cleared when you clear the Fiery X3 with the Clear Server command.

Job Log Page Size—Select the size of paper to print the Job Log on.

Support

Use the Support tab to enter names, phone numbers, and e-mail addresses of contact people at your organization who provide support for the Fiery X3 and the copier.

The screenshot shows the 'Fiery Setup - 127.0.0.1' application window. It features four tabs: 'Server Setup', 'Password', 'Job Log Setup', and 'Support'. The 'Support' tab is selected. On the left side of the window, there is a vertical menu with buttons for 'Server Setup', 'Network Setup', 'Printer Setup', and 'Reboot Server'. The main area of the window contains two sections: 'Aero Contact' and 'Print device Contact'. Each section has three input fields: 'Name:', 'Phone:', and 'E-mail:'. At the bottom right of the window, there are 'Cancel' and 'Save' buttons.

Network Setup

Network Setup configures the Fiery X3 to receive print jobs over the networks that are used at your site. If the Fiery X3 is configured to enable more than one protocol, it automatically switches to the correct protocol when it receives a print job. When the parallel port and one or two network ports are enabled, print jobs can be received over all of ports at the same time.

The available network types, and the setups that you use with them, are summarized in the following tables.

For this Network or Connection Type	Use this Port Setup	Use this Protocol Setup	Use this Service Setup
AppleTalk over Ethernet	Ethernet Setup	AppleTalk Setup	AppleTalk printing (PAP) is enabled automatically. Web Services (if TCP/IP is also enabled)
TCP/IP over Ethernet	Ethernet Setup	TCP/IP Setup: Ethernet Setup	Web Services lpr printing is enabled automatically.
IPX/SPX over Ethernet	Ethernet Setup	IPX/SPX Setup	PServer (NDS, Bindery, or both) Web Services (if TCP/IP is also enabled)
Parallel	Parallel Port Setup	—	—

If the Token Ring option is installed, you have the following additional options:

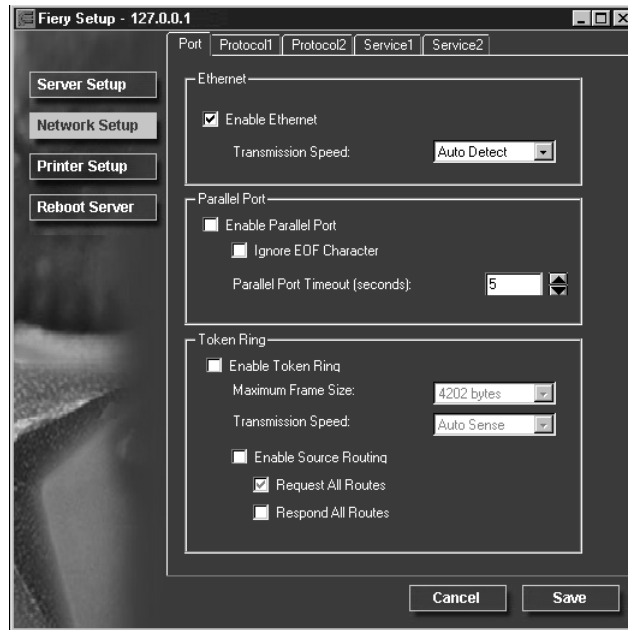
For this Network or Connection Type	Use this Port Setup	Use this Protocol Setup	Use this Service Setup
TCP/IP over Token Ring	Token Ring Setup	TCP/IP Setup: Token Ring Setup	Web Services
IPX/SPX over Token Ring	Token Ring Setup	IPX/SPX Setup	PServer (NDS, Bindery, or both) Web Services (if TCP/IP is also enabled)

You can modify these Network Setup options:

- Ports—Ethernet, Token Ring, or parallel port
- Protocols—TCP/IP, AppleTalk, and IPX/SPX
- Print Services—NetWare printing (PServer), Windows print sharing (SMB), LPD printing (TCP/IP), and HTTP support (WWW)

TO CONFIGURE NETWORK PORTS

- Click the Port tab in the Network Setup dialog box.



You can adjust settings as detailed in the following sections.

Ethernet (Port Setup)

Enable Ethernet—Select if the Fiery X3 is to be connected to an Ethernet network.

Transmission Speed—This option is set to Auto Detect, which will detect the speed of your network.

Parallel Port (Port Setup)

Enable Parallel Port—Select if you want to print through the parallel port. You can connect a single Windows computer to the parallel port and print directly to the Fiery X3.

NOTE: Enabling the parallel port does not conflict with using Ethernet or Token Ring communication with the Fiery X3.

Ignore EOF Character—Available only if Enable Parallel Port is selected, this option specifies that the Fiery X3 should ignore end-of-file (EOF) messages. Check this box to print PostScript files in binary format (not ASCII); under normal circumstances, the box should not be checked. When this option is selected, the Fiery X3 uses the parallel port timeout value to determine when the end of the file has been reached.

Parallel Port Timeout (seconds)—Available only if Enable Parallel Port is selected, this setting determines how long the Fiery X3 waits without receiving data from the parallel port before deciding that the current job is complete. Until the timeout, the Fiery X3 cannot receive new jobs through the parallel port, but it can continue to receive network print jobs.

Token Ring (Port Setup)

Enable Token Ring—Select if the Fiery X3 is connected to a Token Ring network.

Maximum Frame Size—Select the maximum frame size recommended by the network administrator at your site. If you are uncertain of the setting to use, select the default value (4202).

Transmission Speed—Select Auto Sense if your network environment is mixed, or select the speed (4 Mbps or 16 Mbps) of the network to which the Fiery X3 is attached.

Enable Source Routing—Select if your network supports source routing.

Request All Routes—This option is active only if you enabled Source Routing. Select if you want the Request packet to travel to its destination by all routes.

Respond All Routes—This option is available only if the previous option is not selected. Select if you want the Response packet to return by all routes to the originating computer.

TO CONFIGURE THE TCP/IP PROTOCOL

- Click the Protocol1 tab in the Network Setup window.



You can change AppleTalk, IPX/SPX, and TCP/IP protocol settings for the Fiery X3 on the Protocol1 and Protocol2 tabs.

The Fiery X3 can accept jobs via TCP/IP (over either Ethernet or Token Ring), AppleTalk, and IPX/SPX simultaneously. To configure the Fiery X3, choose each protocol and enter the settings for that protocol.

Enable Ethernet and, if you have enabled and installed the Token Ring option, enable Token Ring. If your network uses a gateway, enter the gateway address.

When you set an IP address, subnet mask, or gateway address for the Fiery X3 during Setup, you can allow the Fiery X3 to get these addresses automatically from a DHCP, BOOTP, or RARP server. First, turn on or reboot the Fiery X3 and allow it reach Idle. Next, make sure the DHCP, BOOTP, or RARP server is running. Finally, perform Fiery X3 Setup.

Protocol Setup (TCP/IP)

Enable on Ethernet—Click to enable if you have a TCP/IP network connected to the Fiery X3 over Ethernet cabling.

You must enable TCP/IP for Ethernet to use the Fiery WebTools over Ethernet. If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from Windows NT 4.0 workstations using TCP/IP protocols.

IP Auto (Ethernet)—Click to allow the Fiery X3 to obtain its Ethernet IP address by searching the network. Depending on your network and the protocol you select (DHCP, BOOTP, or RARP), the IP address can change.

Select protocol (Ethernet)—Select the protocol over which the Fiery X3 should search for its IP address. Both DHCP and BOOTP allow the Fiery X3 to obtain the Ethernet IP address and Subnet Mask automatically. RARP obtains only the Ethernet IP address.

Depending on your network, the Fiery X3 might be assigned a different address after you reboot the Fiery X3. With the DHCP setting, the Fiery X3 can be assigned a different address even if it is not rebooted. Make sure the network is already configured properly for the protocol you select.

IP Static (Ethernet)—Click to assign the Fiery X3 a static IP address that will not change.

IP Address (Ethernet)—Enter the Fiery X3 IP address for Ethernet. You must change the default 127.0.0.1 to a valid address for your network. For information about setting up printing with TCP/IP, see Chapter 4.

Subnet Mask (Ethernet)—If you need to set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

NOTE: Be sure to confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

Protocol Setup (Token Ring)

Enable on Token Ring—Select if you have a TCP/IP network connected to the Fiery X3 over Token Ring. If you use Token Ring, enabling TCP/IP for Token Ring is required for enabling the Fiery WebTools.

If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from Windows NT 4.0 workstations using TCP/IP protocols.

IP Address (Token Ring)—Enter the Fiery X3 IP address for Token Ring. You must change the default to a valid address for your network.

IP Auto (Token Ring)—Click to allow the Fiery X3 to obtain its Token Ring IP address by searching the network. Depending on your network and the protocol you select (DHCP, BOOTP, or RARP), the IP address can change.

Select protocol (Token Ring)—Select the protocol over which the Fiery X3 should search for its IP address. Both DHCP and BOOTP allow the Fiery X3 to obtain the Token Ring IP address and Subnet Mask automatically. RARP obtains only the Token Ring IP address.

Depending on your network, the Fiery X3 might be assigned a different address after you reboot the Fiery X3. With the DHCP setting, the Fiery X3 can be assigned a different address even if it is not rebooted. Make sure the network is already configured properly for the protocol you select.

Static IP (Token Ring)—Click to assign the Fiery X3 a static IP address that will not change.

Subnet Mask (Token Ring)—If you need to set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

NOTE: Be sure to confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

Gateway

If your TCP/IP network has a gateway, and users outside the gateway print to the Fiery X3 using TCP/IP, enter the gateway address. Obtain the correct gateway address from your network administrator.

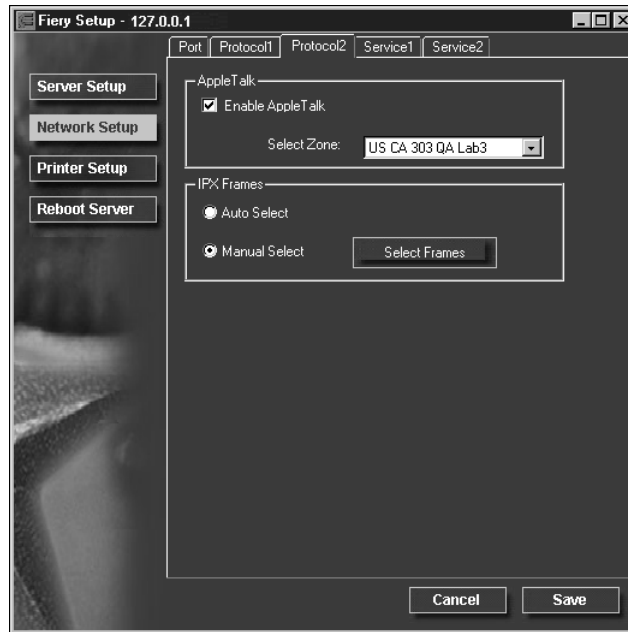
IP Auto—Use this option to get the gateway address automatically for printing with TCP/IP. This option is available only if you selected DHCP or BOOTP as the protocol.

If you select a DHCP or BOOTP protocol and later change it to RARP, you must return to Gateway Setup and set Get Gateway Address Automatically to No. You can then set the address manually. This is because RARP does not support automatic assignment of the gateway address.

IP Static—This option is available only if you answered No to Get Gateway Address Automatically, or if you selected RARP as the protocol. Use this option to set the gateway address for printing with TCP/IP. If your network uses a gateway, you must change the default to a correct gateway address for your network.

TO CONFIGURE APPLE TALK

- Click the Protocol2 tab in the Network Setup window.

**Protocol Setup (AppleTalk)**

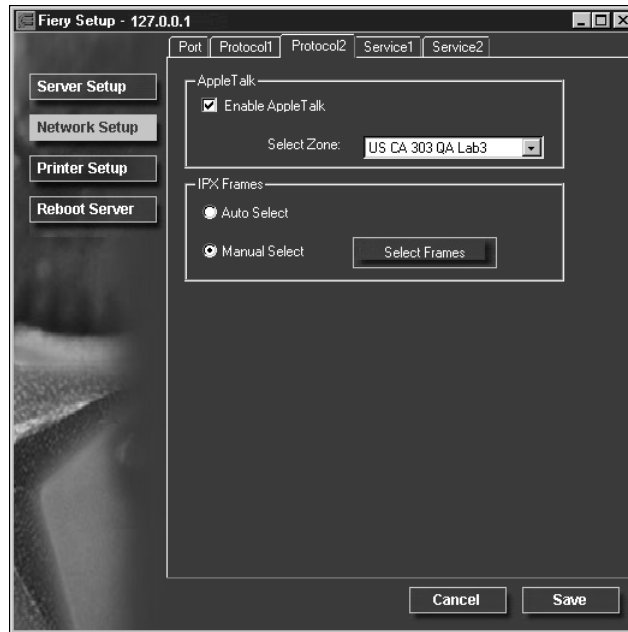
Enable AppleTalk—Select to enable Apple Talk if you have an AppleTalk network connected to the Fiery X3. This setting enables the Fiery X3 to communicate over AppleTalk networks.

Select Zone—The Fiery X3 searches the network for AppleTalk zones in your network segment. Scroll through the list to select the AppleTalk zone in which you want the Fiery X3 to appear. If your segment has only one zone, the Fiery X3 is assigned to that zone automatically.

If no AppleTalk zone can be found, your network may have no defined zones, or else the network cable has not been connected (see page 5-4). Choose OK.

TO CONFIGURE IPX FRAME TYPES

- Click the Protocol2 tab in the Network Setup window.



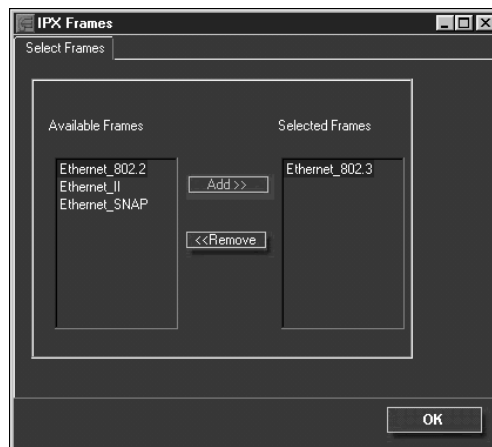
The Fiery X3 supports these following Ethernet frame types for IPX/SPX: Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP. For Token Ring, the supported frame types are Token Ring and Token Ring SNAP. You can also allow the Fiery X3 to select the frame type automatically.

Protocol Setup (IPX Frames)

Auto Select—Click Auto Select to specify all supported IPX frames, whether or not they are supported on your network. To determine the frame types that were successfully bound, save your settings, reboot the Fiery X3, and print a Configuration page.

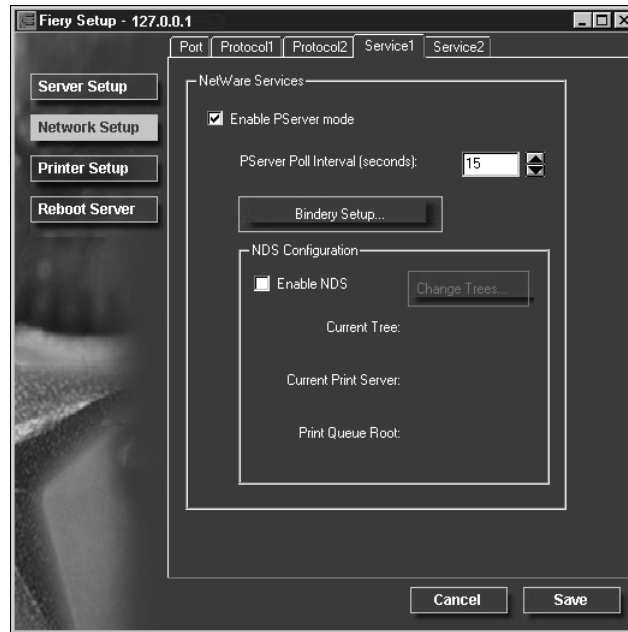
Manual Select—To specify IPX frames used with NetWare, click Manual Select, and click the Select Frames button. See your network administrator to verify which frame type to choose.

In the IPX Frames dialog box, select frames and use the Add and Remove buttons to specify the selected frames.



TO CONFIGURE PSEVER SETUP

- Click the **Service1** tab in the **Network Setup** window.



You can modify NetWare 3.x (Bindery), and NetWare 4.x (NDS) configurations from Fiery WebSetup. Turn on the Enable NDS option if your network uses NetWare 4.x in native mode. Click Bindery Setup if your network uses NetWare 3.x, or uses NetWare 4.x in bindery emulation mode.

NOTE: If your network uses *both* NDS and Bindery, set up NDS first. Setting up NDS after Bindery will overwrite Bindery Setup. If your network uses both NDS and Bindery, including using NetWare 4.x servers in bindery emulation, the Fiery X3 cannot service NDS and bindery emulation servers on the same NDS tree.

PServer Setup (NetWare Services)

The Enable PServer option must be turned on if you have a Novell server connected. You can, however, change the PServer polling interval and then modify either Bindery Setup or NDS Configuration.

NOTE: The terms NetWare server, Novell server, and IPX server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

PServer Setup (NDS Configuration)

In initial setup, the Fiery X3 was connected to the network and an NDS directory tree, with a Printer, a Print Server, and one or more Print Queue objects for Fiery X3 jobs (see page 4-7), was configured. You can make any changes to that setup through Command WorkStation. To modify NDS Setup, you may need permission to browse the NDS tree. If access to the Print Server is restricted, you need a login password.

Enable NDS

Check this box if NDS has already been enabled on the network.

Change Trees...

Click to open the NDS Configuration window. This option is available only when Enable NDS is selected.

Add NDS Tree

You can have only one NDS tree, so the following process is required to change trees:

1. **Select the current NDS tree and click Remove.**
2. **Select the new NDS tree and click Add.**

Your new NDS tree selection automatically overwrites any previous tree selection. If you change the NDS tree selection and there are also current Bindery settings, you are alerted that they will be deleted. If you continue with NDS Setup, you can replace Bindery settings afterwards. To exit NDS Setup, choose Cancel.

3. **Click OK.**

The Select User Login window appears.

Select User Login

1. **Select the User Login object from the display in the Select User Login window.**
2. **Enter a password if necessary.**
3. **Click Next.**

The Select Print Server window appears.

Select Print Server

1. **Select the print server from the display in the Select Print Server window.**
2. **Enter a password if necessary.**
3. **Click OK.**

The Select Print Queue Root window appears.

Select Print Queue Root

1. **Select the print queue root from the display in the Select Print Queue Root window.**
2. **Enter a password if necessary.**
3. **Click Finish.**

The NetWare Setup window reappears, showing the new settings.

Enter Print Server Password

1. **Enter the Print Server password if necessary.**
2. **Choose OK.**

PServer Setup (Bindery Setup)

Use Bindery Setup if you have already configured one or more bindery servers (file servers running NetWare 3.x, or NetWare 4.x in bindery emulation) with a Print Server and a Print Queue for Fiery X3 jobs (see page 4-7). Before entering bindery settings, be sure the Fiery X3 is connected to the network and the NetWare file server is running. You need a login name, and, if access to the file server or print server is restricted, you need a login password.

Because you can set up more than one Novell server to handle Fiery X3 print jobs, Bindery Setup allows you to add or delete new file server connections and view the connections you have selected. The options are:

Bindery Setup...

Click the Bindery Setup button to bring up the Novell Setup window.

Novell Setup

1. **Click the server you want to add.**
2. **Click Add.**
3. **Enter your user name and password.**
4. **Click Next.**

The Add Server window shows a list of print servers you can add.

Add Server

1. **Select a print server from the list on the left.**
2. **Enter a password if required.**
3. **Click Finish.**

You return to the main Novell Setup dialog box.

4. **Click OK.**

TO CONFIGURE WINDOWS PRINTING, LPD, AND WEB SERVICES

- Click the Service2 tab in the Network Setup window.

The screenshot shows the 'Fiery Setup - 127.0.0.1' window with the 'Service2' tab selected. On the left, there is a sidebar with buttons for 'Server Setup', 'Network Setup', 'Printer Setup', and 'Reboot Server'. The main area is divided into two sections: 'Windows Printing Service' and 'Enable Services'. In the 'Windows Printing Service' section, the 'Enable Windows Printing Service' checkbox is checked. Below it are input fields for 'Server Name', 'Comment', and 'Domain or Workgroup'. The 'Auto IP' checkbox is also checked, and the 'Use WINS Server' checkbox is unchecked. The 'IP Address' is displayed as 127.0.0.1. In the 'Enable Services' section, the 'Enable LPD Printing Service' checkbox is checked. Below it, the 'Enable Port 9100' checkbox is unchecked, and the 'Port 9100 Queue' is set to 'Print Queue'. The 'Enable Web Services' checkbox is checked. At the bottom right, there are 'Cancel' and 'Save' buttons.

The Service2 tab provides the following:

- Windows Printing Service enables the Microsoft SMB protocol, which supports peer to peer printing, also known as Windows or SMB printing.
- LPD Printing Service enables lpd printing on TCP/IP networks.
- Web Services enables the http protocol and, therefore, use of the Fiery WebTools.

Service Setup (Windows Printing Service)

For setting up the Windows printing service, these characters are allowed in the text fields: uppercase letters, numerals, space, and the following characters:

- _ . ~ ! @ # \$ % ^ & () { } \ ' ,

NOTE: Lowercase letters are *not* allowed, except in the Comment field.

Enable Windows Printing Service—Select to enable SMB (Server Message Block), the file and printer sharing protocol built into Windows. Enabling SMB allows the Fiery X3 to be listed on the network so that Windows clients can print to a particular print connection (Hold, Print, or Direct) on the Fiery X3 without any other networking software. For information on how to set up a Windows client for Windows printing, see *Getting Started*.

NOTE: Windows (SMB) printing runs over TCP/IP, so TCP/IP must be configured on the Fiery X3 and on workstations that use Windows printing.

NOTE: Be sure the administrator configures the printer driver defaults *before* Windows NT 4.0 clients install the printer driver with Point and Print. The Fiery X3 Administrator name and Password are required during Point and Print installation if you want to change defaults for the Windows NT 4.0 printer driver.

Server Name—The server name is the name that will appear on the network. It can, but does not have to, be the same name as the server name assigned to the Fiery X3 (see page 3-2).

Comment—You can enter information about the printer, up to 15 characters. These comments are listed in the Properties of the Fiery X3 in Network Neighborhood. Lowercase letters are allowed in this field.

Domain or Workgroup—Enter the workgroup or domain where the Fiery X3 should appear.

Ethernet WINS Server—Enter the IP address of the Ethernet WINS name server.

Broadcasts from SMB devices cannot be routed beyond their original network segment without a WINS name server. Setting up the WINS name server is outside the scope of this manual. To find out if a name server is available, contact your network administrator.

Service Setup (Enable LPD Printing Service)

Enable LPD Printing Service—Select to allow lpd printing.

Service Setup (Enable Port 9100)

Enable Port 9100 Print Services—This option allows application programs to open a TCP/IP socket to the Fiery X3 at Port 9100 to download a print job.

Port 9100 Queue—You can attach Port 9100 to any of the published Fiery X3 print connections.

Service Setup (Enable Web Services)

Enable Web Services—Select to make the Fiery WebTools available to users (see page 4-15). TCP/IP must already be enabled on the Fiery X3 and on user workstations. The Fiery WebTools include Fiery WebSpooler, Status, WebLink, WebSetup, WebScan, WebDownloader, and Installer. A Java-enabled Web browser and a valid IP address are required for each user. See *Getting Started* for details on supported browsers and workstation requirements.

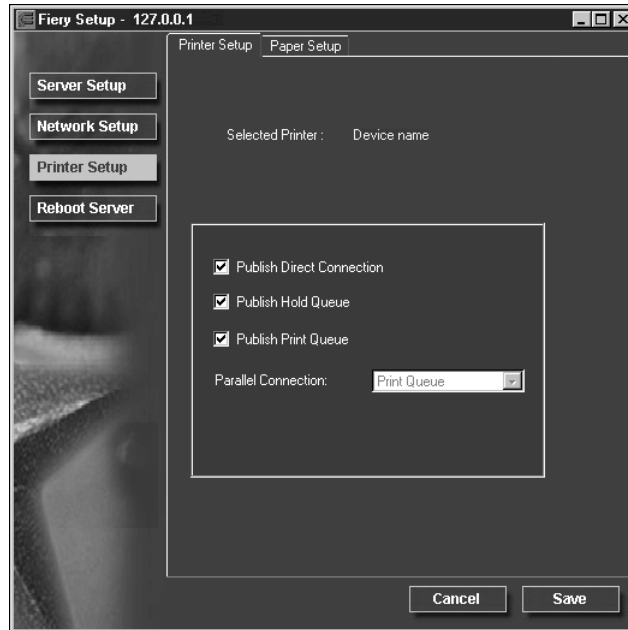
Printer Setup

From this window, you can access two tabs: Printer Setup and Paper Setup.

NOTE: In the following illustration, “Device name” represents the model of the copier connected to the Fiery X3, which is 65BW-M Pro.

TO PUBLISH PRINT CONNECTIONS

- Click the **Printer Setup** tab.



Printer Setup

Publish Direct Connection—Select to enable users to print (or download) jobs to the Fiery X3 without spooling. When the Direct connection is published, users can print jobs to the Direct connection and download and delete printer fonts. Jobs printed to the Direct connection are not available to be reprinted from the Printed queue.

NOTE: The Direct connection must be published to download fonts.

Publish Hold Queue—Select to enable users to print jobs to the Hold queue. Jobs printed to the Hold queue are not processed until the administrator or the operator releases them for printing from the job management tools. For users to use Fiery utilities, you must publish the Hold queue, regardless of whether users send jobs to the Hold queue.

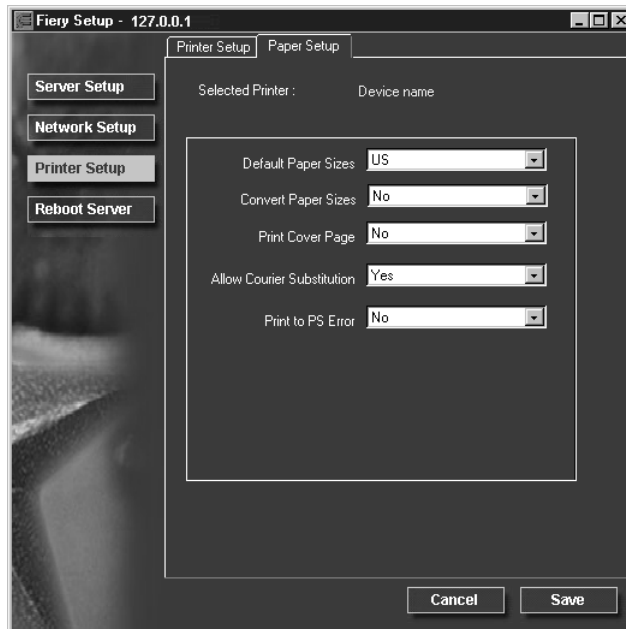
Publish Print Queue—Select to enable users to print jobs to the Print queue. Jobs printed to the Print queue are spooled on the Fiery X3 hard disk drive.

Parallel Connection—This option is available only if the parallel port has been enabled and you have published more than one print connection (Print queue, Hold queue, or Direct connection). This setting determines where jobs printed to the parallel port are sent. If only one print connection has been published, parallel port jobs are automatically printed to that connection.

TO SET PAPER OPTIONS

- Click the **Paper Setup** tab in the **Printer Setup** window.

NOTE: In the following illustration, “Device name” represents the model of the copier connected to the Fiery X3, which is 65BW-M Pro.



Paper Setup

On the Paper Setup tab, you can set most of the same options as appear on the Fiery X3 Control Panel for PS Setup.

Default Paper Sizes—Specify whether to print on US paper sizes (for example, letter, legal, tabloid), or Metric paper sizes (for example, A4 and A3) by default. When no page size is defined within a PostScript file, jobs are printed on letter paper if you select US, or A4 paper if you select Metric.

Convert Paper Sizes—Specify whether to convert paper sizes in documents automatically to the default paper sizes specified. For example, if you select Letter/11x17->A4/A3, a letter size job is automatically printed on A4 paper. If you select No, the Fiery X3 prints the job only if it finds a media source in the size specified by the job.

Print Cover Page—Specify whether the Fiery X3 prints a cover (job summary) page at the end of each print job. If this option is set to Yes, each print job is followed by a page containing the name of the user who sent the job, the document name, the server name, the time the job was printed, the number of pages printed, and the status of the job. If a PostScript error occurs and the Print to PS Error option is set to Yes, the Cover Page lists the PostScript error message instead of the job status.

Allow Courier Substitution—Specify whether to substitute Courier for unavailable fonts. When this option is off, jobs requiring fonts not available on the Fiery X3 hard driver generate a PostScript error and do not print. This setting does not apply to PDF files; font substitution occurs automatically for PDF files.

Print to PS Error—Specify whether the Fiery X3 should print the available portion of a print job when it encounters a PostScript error. In general, this option should be set to No.

- When this option is set to No, printing of the entire job is canceled when a PostScript error occurs, but the processed portion of the job and the PostScript error information are stored on the Fiery X3. You can view the job and the error information from the job management tools.
- When this option is set to Yes, the portion of the job processed before the error occurred is printed.

Exiting Setup

When you have finished specifying Setup options, click OK and close the Setup dialog box. You are notified that the Server must be restarted for the new settings to take effect and given the choice to reboot now or later. If Command WorkStation is running, the connection to the Server is lost and you must log in again when the Server has finished restarting.

After you have completed Setup and rebooted the Fiery X3 for the first time, install user software for printing on remote workstations as described in *Getting Started*. To confirm the network connection and your Setup, print a test job from a remote workstation.

Chapter 4: Setting up Network Servers

This chapter describes environments that typically include one or more network servers—Novell NetWare servers and Windows NT 4.0 servers—that will share printing to the Fiery X3. It describes setting up servers that use IPX/SPX or TCP/IP protocols for communicating with the Fiery X3. In addition, it includes some guidelines for setting up direct communication from Windows NT 4.0 workstations and UNIX workstations, where a network server is optional. The chapter also outlines the requirements for network clients to print to the Fiery X3 and to run the Fiery utilities and the Fiery WebTools.

The Fiery X3 can accept jobs concurrently from NetWare, Windows NT 4.0, and AppleShare servers, as well as jobs sent directly from Windows NT or UNIX workstations. Because AppleShare servers require no special configuration, they are not discussed in this chapter, except for use in a Windows NT 4.0 environment (see “Fiery X3 on a TCP/IP network with Windows NT 4.0” on page 4-11).

If your network is based on Windows NT 4.0, proceed to page 4-11. For information on UNIX workstations, proceed to page 4-18.

Fiery X3 on a NetWare 5.x network with NDPS

The Fiery X3 supports printing over a NetWare 5.x network running either the TCP/IP protocols or the IPX protocol. For pure IP printing, the Fiery X3 takes advantage of features in NDPS (Novell Distributed Print Services), using the Novell Gateway version 2.0.3 or later and Support Pack version 3.0 or later. For IPX printing, the Fiery X3 supports the PServer service in Bindery emulation or through NDS (Novell Directory Services). For more information on IPX-based printing, see “Fiery X3 on a NetWare 3.x, 4.x, or 5.x network” on page 4-4.

NOTE: Setting up a NetWare environment correctly requires the presence and active cooperation of the Novell network administrator. You must have administrator privileges on the network to create new NDS or bindery objects.

NDPS is not like the earlier queue-based versions of NetWare printing. Instead, you use an NDPS Manager and a Printer Agent, which control the tasks previously handled by a print queue, print server, and spooler. You can also make the printer driver available for clients to download from Windows 9x/Me and Windows NT 4 computers.

The Fiery X3 can receive print jobs from NetWare clients over Ethernet or Token Ring network topologies. (Appendix A describes the Token Ring option.) During Fiery X3 Setup, you select the frame type or types that will be used for communication between the Fiery X3 and network servers. Frame type refers to the format of a communications packet; frame types are specified in a startup file when the NetWare server (or any other workstation) loads its network drivers.

Tips for experts—NetWare 5.x networks

Setting up the Fiery X3 in an NDPS environment is similar to setting up any other PostScript printer on the network. The following information is useful for experienced network administrators:

- **Make sure you have a valid IP address for the Fiery X3 and for any workstations that will print to it or run the Fiery utilities.**
- **In Fiery X3 Setup, enable TCP/IP and enter the IP address, Subnet mask, and Gateway address for the Fiery X3. You can enter these manually or use DHCP, RARP, or BOOTP protocols to assign the addresses dynamically.**
- **Bi-directional communication features in NDPS are not supported on the Fiery X3.**

Configuring a NetWare 5.x server for printing

Before you begin

The following procedure assumes NDPS has been installed during NetWare 5 installation and that a Broker is running on the server. Unless you have manually unloaded the Broker, it loads and runs when you install NDPS. Make sure you are using NetWare 5.x Service Pack version 3.0 or later, and the Novell Gateway version 2.0.3 or later. Finally, create an NDPS Manager. For more information, see your NetWare documentation.

In Fiery X3 Setup, make sure you have enabled TCP/IP (page 2-15) and LPD printing (page 2-22) on the Fiery X3. You can ping the Fiery X3 (page 4-20) to verify that TCP/IP communication is successful.

Setting up the Fiery X3 on a NetWare 5.x network

Depending on the security needs at your organization, you can set up the Fiery X3 as a Public Access printer or a Controlled Access printer. The following procedure describes setting up a Public Access printer. You can then convert this type of printer to Controlled Access if necessary. For more information, see your NetWare documentation.

NOTE: In the following procedure, “Atlas” is an example of an NDPS Manager name; “Aero” is an example of a Printer Agent name.

TO SET UP THE FIERY X3 AS A PUBLIC ACCESS PRINTER:

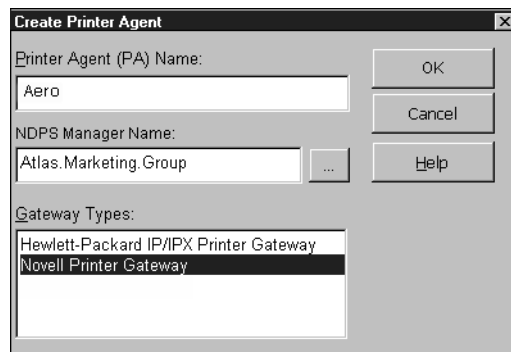
1. In NetWare Administrator, double-click the NDPS Manager object you have created.
2. In the Details window for the NDPS Manager object, click the Printer Agent List button.

The list of Printer Agents appears.

3. Click New.

The Create Printer Agent dialog box appears.

4. In the Printer Agent (PA) Name field, enter a name.



5. Under Gateway Types, select Novell Printer Gateway, and click OK.

6. In the Configure Novell PDS for Printer Agent dialog box, select “((NONE))”, and click OK.
7. In the Configure Port Handler dialog box, choose “Remote LPR on IP” as the connection type, and click Next.
8. For Host Address, enter the IP address of the Fiery X3.
9. For Printer Name, enter the name of the Fiery X3 print connection you want users to print to, and click Finish.
This name must be either print or hold.
10. In the Select Printer Drivers dialog box, select the printer driver for Windows 9x/Me and the driver for Windows NT 4.
11. Click Continue, and click OK.

Fiery X3 on a NetWare 3.x, 4.x, or 5.x network

The NetWise software built into the Fiery X3 supports the following network operating environments:

- NetWare 4.x or 5.x—Novell Directory Services (NDS)
- NetWare 3.x—Bindery services
- Servers running NetWare 4.x or 5.x in bindery emulation mode

NOTE: Setting up a NetWare environment correctly requires the presence and active cooperation of the Novell network administrator. You must have administrator privileges on the network to create new NDS or bindery objects.

The term “bindery server” is used to refer to a Novell file server running NetWare 3.x, NetWare 4.x, or Netware 5.x in bindery emulation mode. The term “NDS” is used to describe components of a NetWare operating system running NetWare 4.x in native mode.

NetWare clients print to the Fiery X3 through the Novell network server. Server setup and client network setup are outlined here. Client printing setup is described in *Getting Started*, and printing is described in the *Printing Guide*.

The Fiery X3 can receive print jobs from NetWare clients over Ethernet. During Fiery X3 setup, you select the frame type or types that will be used for communication between the Fiery X3 and network servers. Frame type refers to the format of a communications packet; frame types are specified in a startup file when the NetWare server (or any other workstation) loads its network drivers.

Tips for experts—IPX networks

Setting up the Fiery X3 is similar to setting up another printer on the network. The following information is all that experienced network administrators need.

The Fiery X3 with IPX connections has these characteristics:

- **Both NetWare 3.x and NetWare 4.x are supported directly. NetWare 4.x is also supported through bindery emulation.**
- **A minimum connection to the Fiery X3 consists of a NetWare file server, a NetWare print server, and a NetWare queue.**
- **A single directory tree (for NetWare 4.x) and up to eight bindery servers can be configured simultaneously.**
- **The Fiery X3 looks for print jobs on one NetWare print server per bindery server.**
- **Each print server can store jobs for any queue on the Fiery X3.**

Overview of IPX printing to the Fiery X3

NetWare file servers support the creation of print queues, which are storage areas for print jobs. When a client on a remote computer decides to print, the job is directed to a print queue on the NetWare file server and spooled to the NetWare server disk, freeing up the client workstation.

The queues on the NetWare server must be named to match the Direct connection and the Print, and Hold queues on the Fiery X3. The NetWare queue names should be given an extension corresponding to the Fiery X3 print connection, as follows:

_print
_hold
_direct

NOTE: The extension names must be in all lowercase and must be in English.

There is no need to rerun Setup when adding or removing a NetWare queue; however you should reboot the Fiery X3 after a queue is created or removed.

When the Fiery X3 is configured to connect to a NetWare server, it polls the NetWare server for jobs in each of its queues. If jobs are found, they are transferred over the network to the matching connection: Print to Print, Hold to Hold, Direct to Direct. While a job is processed and printed, a record of the job is being created. You can access the Job Log containing these records at any time.

Configuring a NetWare server for printing

The following sections explain how to set up a NetWare file server so that networked users can print to the Fiery X3 from their workstations, and the Fiery X3 can obtain print jobs from the NetWare server.

For *each* NetWare file server that you configure, follow these general steps. More detail is provided in subsequent sections and in your NetWare documentation.

- Make sure the server is connected to a functioning IPX network.
- Log in as the Supervisor on a PC connected to the NetWare file server.
- For NetWare 4.x installations, set up an NDS connection (see page 4-9).
- For NetWare 4.x in emulation mode, set the bindery context (see page 4-9).
- For NetWare 3.x and for NetWare 4.x in bindery emulation, set up a file server, a print server, and a print queue for the Fiery X3 (see page 4-10).

With bindery services, you can route all Fiery X3 print jobs through the same NetWare file server, or you can configure more than one file server to handle Fiery X3 jobs.

The functions you perform on the Novell server, on the Fiery X3, and on the client workstation are summarized in the following tables. The first table applies to NDS connections, the second to bindery connections. Complete the operations in the left column, then the center column, then the right column.

Configuring an NDS connection

Abbreviations:

FS = file server

PS = print server

PQ = print queue (on the NetWare server)

On NDS FS	On Fiery X3 Control Panel	On client workstation
In NETADMIN: Create NDS PQs Create NDS printer and assign PQs Create PS and assign the printer Configure users of the PQs	Port Setup Ethernet Setup Protocol Setup IPX/SPX Setup—select frame types Service Setup PServer Setup and NDS Setup Select Root Browse to select PS Specify PQ search root (optional) Set Polling Interval	Install user software For printing: Connect client to PQs that you set up on the NetWare FS (associated with the PS selected in NDS Setup)

Configuring a bindery connection

On Bindery FS	On Fiery X3 Control Panel	On client workstation
In PCONSOLE: Select NetWare FS (up to 8) For each FS: Configure PS Configure PQ Configure users of the PQ	Port Setup Ethernet Setup Protocol Setup IPX/SPX Setup—select frame types Service Setup PServer Setup and Bindery Setup Add FS (up to 8) Set Polling Interval	Install user software For printing: Connect client to PQs that you set up on the NetWare FS (associated with the PS selected in Bindery Setup)

Setting up an NDS connection

In NDS, all NetWare entities (objects) are organized in a hierarchical tree structure. Objects have a name, properties, and a context which defines the location of the object in the directory tree. For the Fiery X3 you are mainly concerned with defining a printer, a print server object and one or more print queue objects. Objects are created in NetWare administrator programs such as PCONSOLE, NETADMIN, or NetWare Administrator.

The top-level tree object is known as the [Root] object. The name of the [Root] object is also the name of the tree. Below the [Root] are other objects: either containers (which consist of other objects) or leaf objects (which do not contain other objects). Access to objects is controlled by rights that are defined as properties of each object. Rights are established by network administrators.

Setting the NetWare 4.x bindery context

You can connect only one directory tree to the Fiery X3. If you need to connect additional NetWare 4.x servers, you can do so by using bindery emulation, which causes the 4.x server to behave like and be accepted as a NetWare 3.x server.

NOTE: The file server selected must not be in the same tree as that selected in NDS Setup.

Up to eight bindery servers, whether in native 3.x mode or in 4.x emulation, can connect to the Fiery X3. If your server is using NetWare 3.x, proceed to “Setting up a Fiery X3 print queue for bindery” on page 4-10.

In order to set up the NetWare 4.x or 5.x server in bindery emulation mode for printing to the Fiery X3, the network administrator must do the following:

- Determine the Directory Services path to the container in which the print server and the print queue for the Fiery X3 will be created.

The container defines the “bindery context” for your network structure.

- Edit the network startup file to set the bindery context.
- Activate the new bindery context.

Setting up a Fiery X3 print queue for bindery

For NetWare 3.x, 4.x and for 5.x in emulation, the NetWare print server and print queue for Fiery X3 are created and configured from NetWare Print Console (PCONSOLE), a NetWare utility that is stored in NetWare's PUBLIC directory.

As with NDS, first you create several NetWare entities on a Novell server, then you select them in Network Setup on the Fiery X3 Control Panel.

Setting up NetWare Windows clients for printing

Before setting up client workstations for printing, make sure you perform Network Setup on the Fiery X3 Control Panel (see page 2-9), and that the settings reflect the entities you created in the NetWare administrator utilities (see page 4-7).

NOTE: For printing to the Fiery X3, connect all Windows clients to a Novell NetWare server and permit them to connect to the server or servers on which you defined a Fiery X3 queue.

After the Novell server and the Fiery X3 have been set up, client setup consists of:

- Installing the networking protocol, binding it to the network adapter card, and permitting the client to log in to the NetWare file server.

On Windows 9x/Me workstations, both the IPX/SPX-compatible protocol and the Client for NetWare Networks should be loaded from the Network Control Panel. On Windows NT workstations, Client Service for NetWare should be installed. Use the CSNW option in Control Panel to set printing options and specify a preferred NetWare server.

- Setting up the Fiery X3 as a PostScript or PCL printer by installing a PostScript or PCL printer driver.
- Adding a network port and connecting the workstation to one or more NetWare queues that have been defined for the Fiery X3.

See *Getting Started* for details on how to connect Windows 9x/Me and Windows NT 4.0 workstations.

- Installing Fiery X3 software.
See *Getting Started* for details.

Fiery X3 on a TCP/IP network with Windows NT 4.0

When a Windows NT 4.0 computer is configured to connect to the Fiery X3 using TCP/IP, it can print directly to the Fiery X3. If the computer shares the printer over the network, it is acting as a print server to Windows NT 4.0 clients. The client machines print to the Fiery X3 by printing to the Windows NT 4.0 print server. Printing can then be monitored and controlled at the Windows NT 4.0 server machine.

With TCP/IP protocols loaded, Windows 9x/Me clients can run Fiery WebTools.

The Windows NT 4.0 server can also use AppleTalk protocols for printing to the Fiery X3 as an alternative to TCP/IP. When creating a printer to share with AppleTalk users, do not “capture” the printer. Capturing the printer forces all users to print to the server rather than directly to the printer. If you capture the printer, Fiery X3 print connections will not appear in the Mac OS Chooser.

Tips for experts—Windows NT 4.0 with TCP/IP

Setting up printing from Windows NT 4.0 using TCP/IP protocols is similar in some respects to setting up UNIX workstations with TCP/IP. When TCP/IP network connections are made from Windows NT 4.0 workstations, note the following:

- **In Fiery X3 Setup, enable TCP/IP and enter the IP address, subnet mask, and gateway address for the Fiery X3.**

You can enter these addresses manually or use DHCP, RARP, or BOOTP protocols to assign them dynamically.

- **Make sure your Fiery X3 name and address are listed in a domain name services (DNS) or a host name database used by your system.**

- **Make sure your system host table includes the correct internal name for the Fiery X3 as a remote printer.**

See page 4-19 for more information.

- **Install the appropriate printer driver files (PCL or PostScript) on the Windows NT 4.0 server (see *Getting Started*).**
- **Repeat the installation for everyone who prints to the Fiery X3.**

Configuring a Windows NT 4.0 server to support the Fiery X3

To configure a Windows NT 4.0 server to communicate with the Fiery X3, follow these general steps. More detail is provided in subsequent sections.

- Load the TCP/IP network protocol on the server and configure it with an IP address, subnet mask, and gateway.
- Enter the host name of the Fiery X3 in the host database used by your system (see page 4-13).
- On the Fiery X3 Control Panel, perform Server Setup (see page 2-7), Network Setup (page 2-9), PS Setup (page 2-39), and PCL Setup (page 2-41).
- On the Windows NT 4.0 server, create a printer for each Fiery X3 print connection, install the appropriate printer drivers (if necessary) and (optionally) share the printer on the network (see page 4-14).
- Enter the host name and internal name of the Fiery X3 in the printer connection. See *Getting Started* for more information.

Adding the Fiery X3 to the TCP/IP network

If your TCP/IP network consists of Windows NT 4.0 servers and Windows NT 4.0 clients, use the directions in this section. If the network includes UNIX workstations, also check the directions on page 4-18.

TO ADD THE FIERY X3 TO A TCP/IP NETWORK WITH A WINDOWS NT 4.0 SERVER

1. **Register the IP address of the Fiery X3 in the host name database used by your system.**

The hosts file maps remote devices to IP addresses. Users can then communicate with any device over TCP/IP by using the host name rather than having to remember its IP address.

For installations that do not have a network administrator or a central host name database, add the Fiery X3 to the hosts file on the Windows NT 4.0 server. Also add it to the hosts file on any workstations that have TCP/IP loaded and will use the Fiery utilities.

The Windows NT hosts file provides compatibility with the UNIX hosts file. The hosts file is used as a local Domain Name Services (DNS) equivalent. It has the same format as the /etc/hosts file on UNIX servers. The format of the hosts entry is:

IP Address<TAB>host name<TAB>#comments

where <TAB> indicates that you press the Tab key.

To determine the IP Address and Server Name of your system, print a Configuration page from the Fiery X3 Control Panel (see page 2-46).

NOTE: If the Fiery X3 has already been defined in an /etc/hosts file or equivalent host name database on a UNIX workstation on your network, use the same host name here as you used for the name of the remote printer in the /etc/printcap file.

2. **On the Fiery X3 Control Panel, perform Server Setup, Network Setup and Printer Setup to support TCP/IP printing.**

Enter the options in Protocol Setup (IP address of the Fiery X3, subnet mask, and gateway address).

Installing the Fiery X3 as a shared PostScript printer

The first step in creating a printer is installing the Windows NT PostScript printer driver and the Fiery X3 PostScript printer description file (PPD), which gives your applications access to some printer features. The installation instructions in *Getting Started* can be used for every workstation that will print directly and independently to the Fiery X3. However, if you are an administrator running Windows NT 4.0 Server or Windows NT 4.0 Workstation, you can also create a printer and share it with Windows NT 4.0 clients on the network. When a printer is shared, Windows NT 4.0 clients who are not able or are not given permission to establish an independent network connection to the Fiery X3 have to print through the server.

You can specify sharing of the printer during installation of the Fiery X3 printer files. If you have not yet installed the Fiery X3 printer files on the Windows NT 4.0 print server computer, do so now following the instructions in *Getting Started*. During installation, enter the information necessary to share the Fiery X3.

If you have already installed the Fiery X3 printer files on the computer you are using as a Windows NT 4.0 print server, see your Windows documentation for information about sharing the Fiery X3.

If more than one Fiery X3 print connection is published (for example, if both the Print queue and the Hold queue are published), you may wish to create a printer for each print connection so that you and other users can print to each connection directly. When prompted to specify the printer name, you may want to enter a name that indicates the Fiery X3 print connection.

Configuring clients of a Windows NT 4.0 server

Each client of a Windows NT 4.0 server is already using a network protocol to communicate with the server. Each client can print to the Fiery X3 if it has been shared by a Windows NT 4.0 Server or Windows NT 4.0 Workstation computer. In that case the client does not have to use the same network protocol to connect to the Windows NT 4.0 server as the server uses to communicate with the Fiery X3.

TO CONNECT AND PRINT TO THE FIERY X3 SHARED BY THE WINDOWS NT 4.0 SERVER

- **For Windows NT 4.0 Workstation clients, before printing, connect to the print server computer and select the Fiery X3. Right-click and select Open. When prompted, click Yes to have Windows set up the printer.**

After clients have set up the printer, they can choose it from the Print Setup, Page Setup, or Print dialog box of their application. Clients can change printing options for their own job, but printer properties are grayed and not available for changing. When you choose Print from a client, the job is transmitted to the Windows NT 4.0 print server, and from there to the selected queue on the Fiery X3. The job is listed in the Print Manager on the client workstation, and the administrator can track it in the Fiery X3 window in the Print Manager on the Windows NT 4.0 print server.

Configuring the Fiery X3 and clients for Fiery WebTools

The Fiery WebTools offer access to many Fiery X3 functions via the Internet (or your company's intranet), thus providing additional flexibility in remote management. You can access the Fiery WebTools from a Mac OS or Windows computer.

NOTE: Fiery WebSetup is supported on Windows computers only.

TO SET UP FIERY WEBTOOLS ON THE FIERY X3**1. Perform Fiery X3 Setup and enable TCP/IP.**

In Network Setup, choose Protocol Setup and perform TCP/IP Setup and Ethernet Setup.

2. Set a valid, unique IP address for the Fiery X3, and then set the subnet mask and a gateway address if necessary.**3. Exit TCP/IP Setup and exit Protocol Setup.****4. Choose Service Setup, and choose Web Services Setup.****5. For Enable Web Services, select Yes.****6. Exit Service Setup and exit Network Setup, and select Yes at the Save Changes screen.**

TO SET UP FIERY WEBTOOLS ON A COMPUTER**1. Enable TCP/IP networking.****2. Assign the workstation has a valid, unique IP address, and then set the subnet mask. Set a gateway address if necessary.****3. Install an Internet browser that supports the Java language and frames.**

Make sure Java is enabled.

See *Getting Started* for more information on supported browsers and other Fiery WebTools requirements.

TO ACCESS THE FIERY WEBTOOLS

1. **Start the Internet browser.**
2. **Enter the IP address or DNS name of the Fiery X3.**
3. **Press Return.**

The Fiery X3 home page appears. Click the name of a WebTool to use it.

4. **Use the Configure button to enable only certain WebTools for users.**

Setting the WebLink destination

The pre-set WebLink destination can be changed; this function requires the Administrator password if one has been set.

TO CHANGE THE WEBLINK DESTINATION

1. **Start your Internet browser application.**
2. **Enter the IP address or the DNS name of the Fiery X3.**

The Fiery X3 home page appears.
3. **Enter the Administrator password (if required) and click OK.**
4. **Press the Control key (Mac OS) or Ctrl key (Windows) while you click the WebLink button.**

The Update WebLink dialog box appears.

5. **Enter the new WebLink address (URL) and click OK.**

Fiery X3 on a network with UNIX workstations

When a UNIX workstation is configured with the lpd protocol, and connected to the Fiery X3 over a TCP/IP network, it can print directly to the Fiery X3.

Setting up UNIX workstations requires an administrator with root privileges. After the initial configuration, UNIX users simply submit print jobs to a named printer.

The Fiery utilities and Fiery WebTools are not available on the UNIX platform. A Windows or Mac OS computer on the same network as the UNIX computer that is set up to use TCP/IP for printing to the Fiery X3 can use the Fiery utilities to manage print jobs that originate from all workstations on the network.

Tips for experts—UNIX workstations

Setting up the Fiery X3 in a UNIX environment has the same requirements as setting up any printer or new device:

- **A distinct IP address is needed for the Fiery X3 as well as for each workstation on the network.**
- **You select a Fiery X3 name that goes with the IP address.**
- **The IP address of the Fiery X3 must be registered for the network in a host database, and also on the Fiery X3 itself.**
- **The Print queue or the Hold queue (or both) must be published.**

Lpd printing to the Direct connection is not supported.

The following information applies especially to the Fiery X3:

- **Fiery X3 is a printer controller that understands lpd protocols.**
- **Fiery X3 has a remote printer name you must use in order to communicate with it successfully.**

See the next section for details.

Important note about the remote printer name

Whichever UNIX system you use, the name used for remote printer (or rp in the `/etc/printcap` file) in configuring the Fiery X3 must be one of the following:

print
hold

The remote printer or rp name is also used when setting up your Windows NT 4.0 workstation or server to connect to the Fiery X3 over TCP/IP. Enter the remote printer name when you set up your Windows NT 4.0 printer, as the “Name of printer or print queue on that (lpd host) server” in the Add LPR Compatible Printer dialog box (see *Getting Started*).

Setting up the Fiery X3 on TCP/IP networks

Every machine (host) on a TCP/IP network, including the Fiery X3, must have a unique 32-bit internet address (IP address). If the network is being set up for the first time, it is a good idea to start out with addresses that can be used with the public Internet. Contact your Internet service provider to obtain an address for the Fiery X3.

TO SET UP FIERY X3 PRINTING ON UNIX SYSTEMS

- 1. Specify the appropriate settings in Fiery X3 Server Setup.**

To access Fiery X3 Setup, see page 2-1.

- 2. Specify the appropriate settings in Fiery X3 Network Setup.**

Run the setups listed in the table on page 2-10 and enter a valid IP address, subnet mask, and gateway address for the Fiery X3.

- 3. Specify the appropriate settings in Fiery X3 Printer Setup.**

Publish the Print queue and/or the Hold queue.

TO SET UP TCP/IP FOR COMMUNICATION WITH THE FIERY X3

1. A superuser (with root login) must add the Fiery X3 to the network's IP host table or other system database of network printers.
2. In the file or utility used by your network, specify the remote printer name, the print server protocol, the queue, and the spool file for the Fiery X3 name you assigned.
3. Make the Fiery X3 available as a printer to other network users.
4. To verify the TCP/IP connection, ping the IP address or the host name. From any computer on the network, at the command prompt, type:

ping <IP address>

Type the Fiery X3 IP address assigned in Fiery X3 Network Setup.

After the Fiery X3 is set up as a network printer, you can also ping the name you gave to the Fiery X3.

ping <hostname>

The server should respond with a message such as:

<IP address> is alive

Some systems will respond with a continuous display of output from the IP address. To stop the output, type Control-C. You can use the ping command at any time.

TO PRINT TO THE FIERY X3

- On a UNIX system running SunOS 4 or other BSD-based variant, use the **lpr** command to send a job to the Fiery X3.
- On a UNIX system running Solaris 2 or any System V implementation of UNIX, use the **lp** command to send a job to the Fiery X3.
- Windows NT 4.0 users with the TCP/IP protocol loaded can send print jobs to a Fiery X3 from their applications or from a command prompt.

Printing from applications uses the Windows NT PostScript driver. This gives Windows NT 4.0 users the ability to set print options, which is not possible from the command line.

Managing print jobs

UNIX network administrators can use UNIX utilities for viewing the list of jobs, and for printing and removing jobs that are spooled on UNIX servers.

You can also use Fiery WebSpooler to manage jobs from remote workstations. See the *Printing Guide* for more information.

Even without use of the Fiery utilities, you can:

- Set up the Fiery X3 to print a log of printed jobs automatically after every 55 jobs (see Job Log Setup on page 2-43)
- Print a Job Log manually at any time from the Functions menu on the Fiery X3 Control Panel (see the *Printing Guide*)

Chapter 5: Administering the Fiery X3

This chapter gives tips on managing Fiery X3 printing, and includes some troubleshooting hints.

Administrator functions

Administration features are provided in the user software package and are built into the Fiery X3 itself. The following table tells you where to find information on these features. Page references refer to this manual.

For these operations	And these tasks	See
Setting up network servers	Setting up servers to manage and share printing services	Chapter 4
Connecting and setting up the Fiery X3	Connecting the Fiery X3 and performing Fiery X3 Setup	Chapter 1 Chapter 2
	Setting up the Fiery X3 to allow user access to Fiery WebTools	Chapter 2 Chapter 4 <i>Getting Started</i>
Setting up the printing environment	Setting printer defaults, including imaging, paper size handling, error handling.	Printer Setup, page 2-37 PS Setup, page 2-39 PCL Setup, page 2-41
Setting up the job environment	Publishing the Direct connection, Print queue, or Hold queue to end users on various platforms	Printer Setup, page 2-37 Chapter 4
Protecting integrity of users' jobs, maintaining consistency of Fiery X3 settings	Setting the Administrator password	Change Password, page 2-45
Setting up all new users	Setting up printing, including installing PostScript and PCL printer drivers for the printer Installing optional user software Preparing users to access Fiery WebTools	<i>Getting Started</i>

For these operations	And these tasks	See
Getting users started with printing	Printing to the Fiery X3 Setting job-specific options Using Fiery Downloader	<i>Printing Guide</i>
Controlling the job flow	Using the Fiery utilities for managing job priorities, tracking current jobs, canceling jobs, printing jobs in the Hold queue, reprinting from the Printed or Hold queue	<i>Printing Guide</i>
Job accounting	Viewing, printing, and exporting the Job Log, user notes	<i>Printing Guide</i>
	Setting automatic printing and clearing for the Job Log	Page 2-43
Maintaining optimal Fiery X3 performance	Tips Deleting jobs, clearing queues	Page 5-2 <i>Printing Guide</i>
Troubleshooting	Troubleshooting Fiery X3 Setup Printing, printer, and user software troubleshooting	Page 5-3 <i>Printing Guide</i>

Maintaining optimal performance

The Fiery X3 does not require maintenance. Beyond the obvious requirements of servicing and maintaining the copier and replenishing consumables, there are a few things you can do that will improve the overall performance of your system:

- Make sure you are making the best use of your network connections**
 Publish only connections that will be used; the Fiery X3 constantly checks all published connections, even if they are inactive. Match the NetWare polling interval and the number of queues or connections to the demand for printing.
 Review the published connections by printing a Configuration page. Eliminate the connections that are not being used. It is easy to reestablish them when needed. In general, network connections provide far superior throughput than a parallel port connection.
- Reduce the number of printed pages by choosing not to print a cover page by default unless you need cover pages for recordkeeping**
 Printing cover pages by default is a PS Setup option.

- **Leave some jobs that are less urgent to times when there is less network traffic or printing**

Recurring print jobs or jobs that are not urgent can be printed to the Hold queue. At low-traffic times, the administrator can move (or copy) all the Hold queue jobs to the Print queue for printing.

- **Reduce unnecessary two-way communication**

Large numbers of remote users using the Fiery utilities, especially with frequent updates, may have a significant effect on Fiery X3 performance.

- **Make sure you have adequate disk space on the Fiery X3**

Periodically review the list of jobs in the Hold queue and the number of jobs being retained in the Printed queue.

An administrator can print or delete jobs that are in the Printed and Hold queues. Consider printing or offloading inactive jobs. If disk space on the Fiery X3 is frequently low, you can disable the Printed queue (in Server Setup) and elect not to publish the Hold queue (in Printer Setup).

To move or remove queued jobs, use Fiery WebSpooler. When you free up disk space by removing inactive jobs, new jobs are spooled and printed more quickly.

An internal hard drive upgrade may be available. Check with your service representative for more information.

Troubleshooting

Startup diagnostics are described in the *Installation and Service Guide*, which is the documentation for service technicians. Contact your authorized service/support center if you see any startup error messages on the Fiery X3 Control Panel, or if the Fiery X3 does not reach Idle status.

Troubleshooting during Setup

The following section explains some error and alert messages that you may see during Fiery X3 Setup that might not be self-explanatory.

Network Setup messages

After this Setup screen	This message	Means
Enable AppleTalk (Network Setup>Protocol Setup>AppleTalk Setup)	No AppleTalk zone found.	The Ethernet network cable is not attached to the connector on the Fiery X3, or the network cable is not plugged into the hub or network. If your AppleTalk network has zones, and you want to specify a zone for the Fiery X3, you must connect the network cable to the Fiery X3 before performing AppleTalk Setup. It also could mean that the AppleTalk network does not have zones. Zones are not required for printing to the Fiery X3. Press OK to continue.
Protocol Setup or Service Setup (Network Setup)	You must first enable a network port.	At least one network port (Ethernet or Token Ring) must be enabled in Port Setup before Protocol Setup or Service Setup.
Protocol Setup or Service Setup (Network Setup)	You must first enable a network port.	You must enable Ethernet in Port Setup before Protocol Setup or Service Setup.
Frame Type selection (Network Setup>Protocol Setup>IPX/SPX Setup)	Invalid frame size.	The network hub is not connected to a Novell machine when the Fiery X3 tries to bind.
	Warning! IPX network number is zero.	No other IPX machine can be found on the network, or the network hub is not connected to the network, when the Fiery X3 tries to bind. When this occurs, the network number defaults to zero.
	Can't detect Token Ring hardware. Token Ring hardware not installed or not functioning.	Fiery X3 queries the Token Ring hardware. Error indicates that some components are not installed, are not installed correctly, or not installed in the correct device. An unsupported Token Ring board may be in use. Check with your authorized service/support center.
Token Ring Setup	Can't autodetect the ring speed. No device on ring.	The Fiery X3 is trying to detect the current ring speed, but it is the only machine on the token ring network. Connect another machine to the token ring network first, before connecting the Fiery X3.
Enable NDS (Network Setup>Service Setup>PServer Setup>NDS Setup)	No NDS trees found.	No NDS trees were found on the Novell network. Check that IPX frame types are properly set.

After this Setup screen	This message	Means
Select NDS Tree (Network Setup>Service Setup>PServer Setup>NDS Setup)	Warning! Selecting a new NDS tree deletes Bindery setup.	<p>You have previously connected the Fiery X3 to a different NDS tree. NetWise supports only a single NDS tree connection. To avoid a potential conflict with an existing tree connection (for example, if the connection was made through a NetWare 4.x server in emulation mode), all bindery settings will be deleted.</p> <p>If you choose OK, and choose Yes at the following prompt (Delete Bindery setup and continue?), bindery settings are deleted and must be reentered in Bindery Setup.</p> <p>To avoid deleting the bindery settings press the Menu key, or select OK and choose No in the following message screen (Delete Bindery setup and continue?).</p> <p>Repeat NDS Setup without changing the NDS tree, or exit to Bindery Setup to review your current bindery settings.</p>
Navigating NDS tree (Network Setup>Service Setup>PServer Setup>NDS Setup)	___ is empty.	The chosen container contains no sub-containers or objects relevant to the current mode of navigation.
Bindery Setup (Network Setup>Service Setup>PServer Setup>Bindery Setup)	If you also plan to use NDS, set up NDS before Bindery.	No NDS settings are present. You are reminded to perform NDS Setup before Bindery Setup in case your network includes both NDS and bindery servers.
Select File Server From List (Network Setup>Service Setup>PServer Setup>Bindery Setup)	Error. Cannot open bindery connection to NDS server.	Select this server through NDS setup or disable NDS and select it through bindery.
	No NetWare file server found.	<p>No file server was found when Fiery X3 queried the network to create a list of supported servers or a list of all servers.</p> <p>Check cable connections and make sure the NetWare server is turned on.</p>
Enter First Letters of Server Name (Network Setup>Service Setup>PServer Setup>Bindery Setup)	File server name not found. Try again?	No file server with those letters was found when Fiery X3 queried the network. Check the name of the NetWare file server, check cable connections, and make sure the NetWare server is turned on.

After this Setup screen	This message	Means
View Server List>Edit Connection (Network Setup>Service Setup>PServer Setup>Bindery Setup)	No file server is selected.	No file server has been added in Bindery Setup.
Add File Server (Network Setup>Service Setup>PServer Setup>Bindery Setup)	All connections used. Remove server?	You have added the maximum number of bindery servers, which is eight.
Add Server, Enter Your Login Name, Enter Your File Server Password (Network Service Setup>PServer Setup>Bindery Setup)	No NetWare print server found.	No print server was found when Fiery X3 queried the file server you selected. You must configure a print server and a print queue for every NetWare file server that will handle Fiery X3 print jobs (see page 4-7).
Any Bindery Setup screen	Novell error code, followed by a message.	Novell NetWare has reported an error. The Control Panel reports the error number and displays a brief message. For the most common errors (listed in the following table), a screen is displayed that enables you to retry the action that evoked the error, such as adding a server. If that is not possible, you are prompted to notify the Novell administrator, who will need to troubleshoot the network. Consult NetWare Administrator documentation for further explanation of Novell error codes.

In Network Setup, when you are configuring your IPX (Novell) connection, the Fiery X3 queries the network for Novell file servers and print servers, and attaches to them temporarily. If a guest login is enabled, it will be used. If not, you are prompted to log in from the Fiery X3 Control Panel.

If the selected NetWare file server does not have a guest account, or if the guest account has expired or has been disabled by the NetWare supervisor, you are prompted to notify the IPX (Novell) administrator. In that case, you (or the supervisor) have two options:

- Enable a guest account on the NetWare server for the purpose of setup.
- Log in to a different account. At the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or enter another valid login name. When you are prompted for a password, enter the correct password for the account you named.

For any Novell error, make sure:

- Your IPX (Novell) network is connected to the Fiery X3.
- The NetWare server you are trying to access is running.
- The Novell network has been configured with at least one print server and queue for the Fiery X3.
- You have the appropriate permissions.
- Each NetWare server is using one of the frame types you have set on the Fiery X3 in Network/IPX/SPX Setup.

Novell error screens

Novell error	Cause	Suggested action or exit
220 Guest account not available.	The guest account, which you have chosen for initial login, has expired or has been disabled by the NetWare supervisor.	Enable a guest account on the NetWare server for the purpose of setup. Alternatively, log in to a different account. In the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or another valid login name. When you are prompted for a password, enter the correct password for the account you named.
222 Unable to log in to server. Password has expired for login name.	The server has connected to a file server, but is unable to log in to the file server or print server because the password has expired for the login account name or the named print server.	Select a different login account or print server. The error screen exits to the File Server Login screen (if login to file server failed) or NetWare Print Server screen (if login to Print Server failed). Pressing the Menu button returns to the PServer Setup screen.
252 Unable to log in to server. Login does not exist.	The server has connected to a file server, but is unable to log in to the server because the selected login account does not exist on the file server.	Select a different login account. The error screen exits to the File Server Login screen. Pressing the Menu button returns to the PServer Setup screen.
255 Unable to connect to file server. File server is down or out of connections.	The Novell file server is down or out of connections. This error occurs while the server is trying to connect to the requested file server.	Select a different file server (or try to get someone else to log off). Pressing the Menu button returns to the PServer Setup screen.

Novell error	Cause	Suggested action or exit
nnn Notify IPX (Novell) Administrator.	<p>Indicates other network errors when the Fiery X3 is already connected to a file server. Something unexpected has happened and the user generally cannot recover without intervention of the network administrator.</p> <p>Error #197 indicates that you have exceeded the number of login attempts permitted for this account on the NetWare file server.</p> <p>Error #220 indicates that the guest account you selected is not available.</p> <p>Error #255 usually indicates a hard failure.</p>	<p>Notify the Novell administrator and report the error number.</p> <p>The error screen exits to the PServer Setup screen.</p>

Runtime error messages

For canceling jobs and error messages related to printing, see the *Printing Guide*. See the *Printing Guide* for additional runtime error messages, including printer errors, alerts to load media in trays or cassettes, and a disk full message. These messages are reported by the Control Panel and the Fiery utilities.

PostScript error reporting can be turned on as a print option from Mac OS applications that use a PostScript Level 2 or PostScript 3 driver or by setting the PS Setup option Print to PS Error to Yes.

Check power and cable

This message on the Touch Panel Display indicates that the interface cable between the Fiery X3 and the copier is not connected, or a print job is ready but the copier is not turned on. Depending on the copier model, the runtime diagnostics Test Scan/Print, Video Diagnostics, and Cable Check may be available for service technicians.

Printer not found—TCP/IP or IPX networks

Most failures to find a printer on the network are due to conflicting or missing name or address settings for the Fiery X3. You must enter particular names in certain places.

The required names are:

- TCP/IP host name or DNS name, which is defined by the network administrator and should be fewer than 10 characters long.

Enter the host name as the Server Name on the Control Panel.

- Remote printer (internal machine) name. Use one of the following:

print
hold

See *Getting Started* for more information on setting up the remote printer name for Windows NT 4.0.

You must reconfigure one of the Fiery utilities on each workstation if you change the TCP/IP host name or DNS name of the Fiery X3.

Check the following table for the appropriate name to use.

In this location	For this item	IPX/SPX networks	TCP/IP networks	See
Server Setup on Fiery X3 Control Panel	Server Name option	Defined by administrator	Defined by administrator	page 2-7
Windows NT hosts file	host name	—	DNS name or TCP/IP host name	page 4-11
Windows NT setup for TCP/IP	lpd host name	—	DNS name or TCP/IP host name	page 4-11 and <i>Getting Started</i>
	name of printer on lpd host machine	—	print hold	

In this location	For this item	IPX/SPX networks	TCP/IP networks	See
UNIX /etc/hosts file	rp line	—	print hold	page 4-18
Solaris	lpadmin queueName	—	print hold	
NetWare administration utility	print queues (must be all lowercase and in English)	_direct _print _hold	—	page 4-6
Add New Server dialog box, when configuring a Fiery utility	New Device	Utilities are not supported over IPX/SPX.	65BW-M Pro	<i>Getting Started</i>
	Server Name	Utilities are not supported over IPX/SPX.	DNS name or TCP/IP host name	

Cannot connect to Fiery X3 with Fiery Downloader

If clients cannot connect to the Fiery X3 with Fiery Downloader, check the following:

- Fiery X3 Setup—the appropriate network protocol must be enabled, with the correct parameters (for example, for TCP/IP, the IP address, etc.), and you must have published the Print queue.



Appendix A: Token Ring Network Option

Token Ring is an alternative network architecture to Ethernet architecture. Token Ring networks offer a high resistance to failure and are commonly used in large or high-traffic network installations.

Token Ring networks operate by passing a network token around the electronic equivalent of a ring. The token is a data packet that circulates from one network node to another, controlling access to the network. In practice, each workstation is connected to a port on one or more media attachment units (MAUs) which act as network hubs for the ring connection.

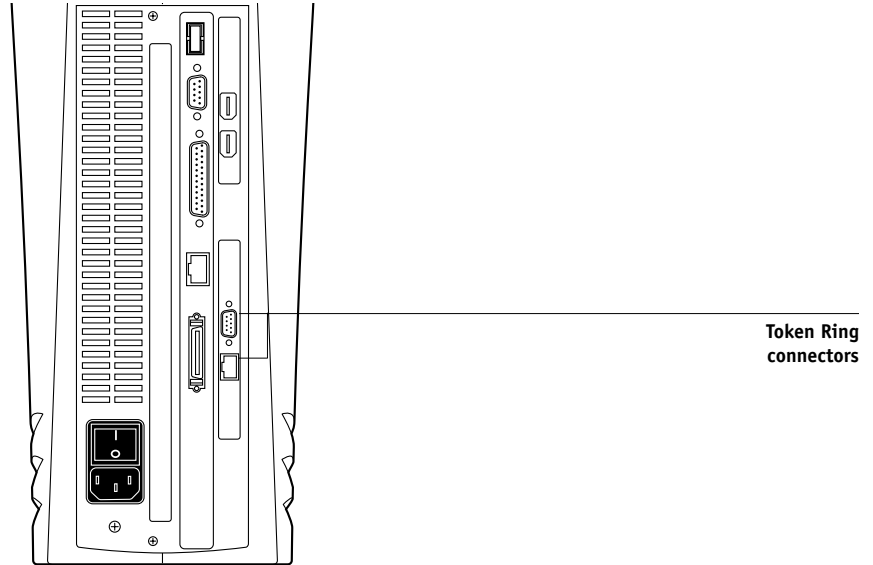
This appendix describes the Token Ring option and cable connections, and refers you to the remaining configuration required for printing to the Fiery X3.

Fiery X3 Token Ring option

The Fiery X3 supports Token Ring networks that use IPX and TCP/IP protocols. To use the Fiery X3 with a Token Ring network, a Token Ring network interface card provided by EFI must be installed in the Fiery X3. You can use either shielded twisted pair (STP) or unshielded twisted pair (UTP) cable.

Connecting Token Ring hardware

The service/support center that installs the Fiery X3 typically also installs the Token Ring option at the same time and configures the Fiery X3 to enable printing.

Back view of the Fiery X3 with the Token Ring option installed

Turn off the Fiery X3 before connecting it to any network device.

NOTE: Do not attach cable to both Token Ring connectors.

TO CONNECT CABLE TO THE FIERY X3

1. **Turn off the Fiery X3.**
2. **Connect cable from the Token Ring MAU to the Fiery X3 Token Ring card.**

Configure the NetWare, Windows NT, or UNIX server to print to the Fiery X3 (see the next two sections). Then proceed to page 2-1 for Fiery X3 Setup.

IPX/SPX installations

If your network uses IPX/SPX protocols with Token Ring, configure at least one printer, one Fiery X3 Print Server, and one Fiery X3 Print Queue on the NetWare server as described in “Fiery X3 on a NetWare 3.x, 4.x, or 5.x network” on page 4-4. You can configure up to eight bindery servers and one NDS tree connection to the Fiery X3. This total is the same whether the Fiery X3 is connected by Token Ring, by Ethernet, or by both. For more information, see “Setting up an NDS connection” on page 4-9.

TCP/IP installations

If your network uses TCP/IP protocols with Token Ring, configure at least one printer and one Fiery X3 queue on a Windows NT server (see “Configuring a Windows NT 4.0 server to support the Fiery X3” on page 4-12), or on a UNIX server (see “Fiery X3 on a network with UNIX workstations” on page 4-18).

Setting up Token Ring on the Fiery X3

Token Ring Setup on the Control Panel is similar to Ethernet Setup. From Network Setup, perform Port Setup, Protocol Setup, and Service Setup.

NOTE: Connect the Token Ring cable before doing Fiery X3 Network Setup, so that the Token Ring card can configure itself properly.

Setting up NetWare Windows clients

Client setup is exactly the same as for IPX clients using Ethernet. See “Setting up NetWare Windows clients for printing” on page 4-10 for details.

Index

Numerics

- 100BaseT connector 1-12
- 10Base5 1-12
- 10BaseT 1-12

A

- accessing Setup 2-2 to 2-7
 - from Windows computer 3-1
- Add File Server option, Bindery 2-27, 2-28
- Add Server option, Bindery Setup 2-28
- administrator
 - features of server 2-43
 - functions 5-1 to 5-2
 - installing the server 1-2
 - managing print jobs 5-1
 - password 2-43, 2-45
- Administrator password
 - changing from Control Panel 2-45
 - changing from Windows computer 3-4
 - for setting the WebLink destination 4-17
- Allow Courier Substitution
 - option 2-40, 3-27
- AppleTalk 1-1, 1-5
 - frame type 2-21
 - network diagram 1-5
 - protocol setup 3-10, 3-14
 - server name 3-2
 - with Windows NT 4-11
- AppleTalk Setup 2-14
 - summary 2-10, 3-7
- AppleTalk Zone option 2-14, 3-14
- Auto Clear Job Log Every 55 Jobs
 - option 2-44, 3-5
- Auto Print Job Log Every 55 Jobs
 - option 2-44, 3-5

B

- binary data, printing via parallel port 2-13, 3-9

Bindery

- connecting file servers 2-28, 3-20
- emulation mode 3-17
- Bindery Services 2-22, 2-27
- Bindery Setup
 - on the server 2-27 to 2-31, 3-20
 - requirements 2-27
- BOOTP 3-12
- BOOTP
 - protocol 2-15, 2-16, 2-17, 2-18, 2-20, 3-10, 3-11, 3-13
- Broker, NDPS printing 4-2
- buttons on Control Panel 2-2, 2-3

C

- cables, Token Ring option A-2
- canceling Setup changes 2-7
- Change Password option 2-45
- changes, saving during Control Panel setup 2-7
- changing
 - Administrator password 2-45, 3-4
 - Bindery connection 2-30
 - host name or DNS name 5-10
 - Novell print server, Bindery 2-27, 2-30
- characters
 - allowed in remote Windows Printing Service Setup 3-22
 - used on Control Panel 2-8, 3-3
- Choose File Server option for editing Bindery connection 2-30
- Chooser, AppleTalk 2-7, 3-2
- choosing a Bindery Server to connect 2-28, 3-20
- Clear Each Scan Job option 2-9
- Clear Frame Types, IPX/SPX Setup 2-21
- Clear Server 2-43, 2-45
- clearing
 - Job Log 2-43, 2-45, 3-5
 - queued jobs 2-43, 2-45

- client setup
 - Token Ring A-3
- clients, setting up 1-2, 4-15
- color server
 - back view with Token Ring option installed A-2
- Comment option, Windows printing 2-33, 3-22
- Configuration page, printing 2-46
- configuring network clients
 - NetWare 4-10
 - Windows NT 4-15
- configuring network servers
 - NetWare 4-5, 4-7
 - UNIX 4-18
 - Windows NT 4-12
- connected Bindery servers, viewing 2-30
- connecting
 - copier interface cable 1-11
 - network cable 1-12 to 1-13
 - parallel cable 1-13
 - to a Bindery file server 2-28, 2-29, 4-8
 - to multiple Bindery servers 2-27, 2-28
 - Token Ring cable A-2
- connection to printer fails 5-10
- connections published 2-35
- Control Panel 2-2
 - accessing setup 2-2 to 2-4
 - Change Password 2-43
 - Clear Server 2-43
 - diagram 2-2, 2-3
 - entering settings 2-4
 - illustrated setup examples 2-6
 - Job Log Setup 2-43
- Convert Paper Sizes option 2-40, 3-27
- copier interface cable 1-11
- Courier font, substitution with 2-40, 3-27
- cover page, printing at end of job 2-40, 3-27

D

- date, setting 2-7, 3-3
- Default Paper Sizes option 2-39, 3-27
- Delete Scan Jobs option 3-3
- delete symbol, in setup display 2-5

- destination address, setting for WebLink 4-17
- DHCP 3-12
- DHCP
 - protocol 2-15, 2-16, 2-17, 2-18, 2-20, 3-10, 3-11, 3-13
- diagrams of network setup 1-4 to 1-10
- Direct connection
 - printing to 2-36
 - publishing 2-38
- disconnecting a Bindery file server 2-27, 2-31
- disk space 5-3
- DNS (Domain Name Services) 4-11, 4-13
- Domain or Workgroup option, Windows printing 2-34, 3-22

E

- Edit Connection option, Bindery Setup 2-27, 2-30
- Enable AppleTalk option 2-14, 3-14
- Enable Auto IP Configuration (Setup option) 2-15, 2-18, 3-11, 3-12
- Enable Ethernet option 2-12, 3-8
- Enable IPP option 2-34
- Enable LPD option 2-22, 3-23
- Enable NDS option 2-23, 3-18
- Enable Parallel Port option 2-13, 3-9
- Enable Port 9100 option 2-35
- Enable Port 9100 Print Services option 3-23
- Enable Printed Queue option 2-8, 3-3
- Enable PServer option 2-23
- Enable Source Routing option 2-12, 3-9
- Enable TCP/IP for Ethernet
 - option 2-15, 3-11
- Enable TCP/IP for Token Ring
 - option 2-18, 3-12
- Enable Token Ring option 2-12, 3-9
- Enable Web Services option 2-34, 3-23
- Enable Windows Printing option 3-22
- enabling
 - Fiery utilities 2-15
 - Fiery WebTools 2-15, 2-34, 3-23
- enabling utilities 2-18

- enabling WebTools 2-18
- end-of-file (EOF) character, parallel communication 2-13, 3-9
- Enter First Letters of Server Name (search option) 2-28
- Enter Login Name option, Bindery Setup 2-29
- Enter Your File Server Password option, Bindery 2-29
- Enter Your Login Name option, Bindery Setup 2-29
- Enter Your Print Server Password, Bindery 2-29, 2-30
- entering a new password 2-45
- error messages
 - “No AppleTalk zone found” 3-14
 - Novell 5-6
 - PostScript 2-40
 - runtime 5-9
 - Setup 5-3 to 5-9
- Ethernet 1-12
 - connecting cable 1-12 to 1-13
 - frame types 2-21, 3-15
 - network 4-2
 - receiving NetWare jobs 4-5
- Ethernet Setup
 - Ethernet Speed 2-12
 - Port Setup 2-12, 3-8
 - Protocol Setup 2-15, 3-11
- Ethernet Speed option 2-12, 3-8
- Exit Bindery Setup 2-27, 2-31
- exiting Setup, Control Panel 2-7, 2-46

F

- Fiery utilities
 - enabling protocol on the server 2-15, 2-18
 - require Print queue 2-38
- Fiery WebTools
 - enabling 2-34, 3-11, 3-23
 - enabling only certain WebTools 4-17

- File Server Login option, Bindery 2-29
- File Server Password, Bindery 2-29
- file types and parallel port setup 2-13, 3-9
- font substitution 2-40, 3-27
- frame types supported
 - IPX/SPX 2-21
 - IPX/SPX, Ethernet 3-15
 - IPX/SPX, Token Ring 3-15
 - TCP/IP and AppleTalk 2-21
- From List option (adding a file server) 2-28

G

- gateway address, setting 3-13
- Gateway Setup, in TCP/IP Setup 2-20
- guest login during Bindery Setup 2-28, 2-29, 5-6

H

- Hold queue 2-37, 2-38, 3-25
- host name 4-11, 4-12, 4-13, 4-20
- http protocol 3-21

I

- Ignore EOF Character option 2-13, 3-9
- improving server performance 5-2
- installation, summary of tasks 1-2 to 1-3
- installing
 - server on network 1-2 to 1-10
- Internet Printing Protocol, enabling 2-34
- Internet, WebLink access 4-17
- IP address
 - assigning
 - automatically 2-15, 2-16, 2-18, 3-11, 3-12
 - Ethernet, setting manually 2-16
 - for Ethernet Setup 3-12
 - for TCP/IP networks 4-19
 - for Token Ring Setup 3-12
 - Token Ring, setting manually 2-19
 - verifying with ping command 4-20
- IPP Setup 2-34

IPX (Novell) 1-1, 4-4 to 4-10
 Bindery file server,
 connecting 2-27, 3-18
 NDS 2-22, 4-9
 NetWare client setup 4-10
 NetWare server setup 4-7
 network diagram 1-6
 overview of printing 4-6
 selecting frame 3-16
 setting bindery context 4-9
 setting up printing 4-7, 4-10
 terms used to describe 2-27, 3-18
 tips for experts 4-5
 IPX/SPX
 installing with Token Ring A-3
 IPX/SPX Setup 2-21
 selecting frame types 2-21
 summary 2-10
 IPX/SPX Setup, summary 3-7

J

Job Log
 clearing 2-43, 2-45
 clearing automatically 2-44
 default options 2-43
 printing automatically 2-44
 setting the page size used 2-44, 3-5
 Job Log Setup
 from Windows computer 3-5
 job notes, in Job Log 2-43
 Jobs Saved in Printed Queue option 2-8, 3-3
 jobs, clearing from server 2-45

L

line selection buttons, Control Panel 2-2
 lpd
 (TCP/IP) 1-1, 1-4, 1-9, 2-10, 2-21, 2-22,
 2-36, 4-18
 setup summary 4-19
 lpd host name 4-19, 5-10
 LPD Setup 3-21

M

Mac OS computers
 on AppleTalk network 1-5
 with Windows NT 4-11
 maintaining server performance 5-2
 Maximum Frame Size option, Token Ring
 Setup 2-12, 3-9
 maximum server connections, Bindery 2-27
 media attachment unit (MAU) A-1
 Menu
 button 2-2, 2-7, 2-28, 2-30, 2-31, 5-8
 messages
 during runtime 5-9
 during setup 5-3
 during startup 5-3
 Microsoft SMB protocol 3-21
 multiple Bindery servers, connecting 2-27

N

naming the server 2-7, 3-2, 5-10
 NDPS (Novell Distributed Print
 Services) 4-1
 NDPS Manager 4-2
 NDS 2-22
 enabling 2-23
 print queue subtree 2-26
 setting up a connection 4-9
 setup on the server 2-23 to 2-26
 setup requirements 2-23
 NDS (Novell Directory Services)
 enabling 3-18
 NDS Setup
 from Control Panel 2-23
 from remote Setup 3-17
 NDS tree
 browsing 2-23, 2-24, 3-18
 browsing to print queue root 2-26
 browsing to Print Server 2-25
 browsing to User Login object 2-24
 selecting 3-18
 NETBEUI 1-7

NetWare

- Bindery and NDS on the same
 - network 2-23, 3-17
- Bindery Services 2-22
- Directory Services 2-22
- error messages 5-6, 5-8
- NDS 4-9
 - print server poll interval 2-32
- NetWare 4.x bindery context 4-9
- NetWare File Server, Bindery
 - connecting 2-27, 2-28, 3-20
 - finding available servers 2-28
 - maximum number supported xiii, 2-27
 - removing connection 2-31
 - selecting for editing 2-30
 - setting up more than one 2-27, 3-20
- NetWare Print Console 4-10
- NetWare Print Server poll interval 2-32
- NetWare Print Server, Bindery 2-29
 - changing the selection 2-27, 2-30
 - connecting 2-29, 2-30
 - editing your choice 2-30
 - password 2-29
- NetWare Server Poll Interval in
 - Seconds 2-32
- NetWare Windows clients, setting up 4-10
- network
 - AppleTalk 1-3 to 1-5
 - cable 1-11
 - installation diagrams 1-3 to 1-10
 - installation summary 1-3
 - IPX (Novell) 1-3, 1-4, 1-6
 - lpd (TCP/IP) 1-3, 1-4, 1-9
 - protocols supported 1-1
 - using multiple protocols 1-4
 - with Windows NT 1-7
- Network Setup 2-9 to 2-35
 - from Windows computer 3-6 to 3-23
 - part of initial Setup 3-1
 - with Token Ring option A-3

New Password option 2-45

notes, entering for jobs at print time 2-43

Novell Directory Services, *see* NDS

Novell. *See* NetWare

P

- Paper Setup tab 3-26
- paper size used by default 2-39
- Paper Sizes option 3-27
- Parallel Connection option 3-25
- parallel port
 - cable (Centronics-type) 1-13
 - connecting 1-13
 - connector 1-12
 - diagram 1-10
 - end-of-file setting 2-13
 - Setup 2-13
 - summary of Setup 2-10
 - timeout setting 2-13
- Parallel Port Setup, remote 3-9
 - timeout setting 3-9
- Parallel Port, summary of setup 3-7
- password
 - administrator, changing or setting 2-45
 - Bindery print server 2-29
 - Novell file server, Bindery 2-29
- passwords 3-3
 - NetWare print server 3-19
- PC compatibles
 - on IPX (Novell) network 1-6
 - on TCP/IP network 1-9
- PCL (Printer Control Language) Setup 2-41
- PCONSOLE utility 2-29
- PDF files, font substitution in 3-27
- peer to peer printing, *see* Windows (SMB)
 - printing
- ping command 4-20
- platforms supporting utilities xiii
- poll interval for NetWare print jobs 2-32
- Port 9100 Queue option 3-23

- Port Setup 2-11
 - Ethernet Setup 2-12
 - Token Ring Setup 2-12
- Port Setup, remote 3-8
- Port Timeout in Seconds option 2-13, 3-9
- PostScript error 2-40
- PostScript files, printing 2-13, 3-9
- preferences for the Job Log 2-43
- print connections 2-35
- Print Cover Page option 2-40, 3-27
- Print queue 2-8, 2-37, 2-38
- print queues
 - Bindery, selecting in Network Setup 2-28
 - NDS, selecting in Network Setup 2-26
- Print Start Page option 2-8, 3-2
- Print to PS Error option 2-40, 3-27
- Printed queue 2-8, 2-37
- Printer Agent, NDPS 4-2
- printer connection failure 5-10
- printer not found on TCP/IP or IPX networks 5-10
- Printer Setup 2-37
 - from Windows computer 3-23
 - part of initial Setup 3-1
 - Printed queue options 3-3
- printing
 - Configuration page 2-46
 - connections and queues 2-35, 2-37
 - cover page for each job 2-40
 - directly to parallel port 2-13, 3-9
 - Job Log automatically 2-44
 - PostScript files 2-13, 3-9
 - publishing connections for 2-35
 - reprinting previously printed jobs 2-37
 - start page at startup 2-8, 3-2
- protocol for assigning IP address
 - automatically 2-18, 3-12
- Protocol Setup 2-14, 3-10

- protocols
 - for assigning IP address
 - automatically 2-15, 2-16, 3-11
 - setting up 3-10
 - supported on network 1-1
 - See individual protocols*
- PS (PostScript) Setup 2-39, 3-27
- PServer Setup 2-22, 3-17
- PServer, defined 2-22
- Publish Direct Connection
 - option 2-38, 3-25
- Publish Hold Queue option 2-38, 3-25
- Publish Print Queue option 2-38, 3-25
- publishing
 - Direct connection 2-38
 - Hold queue 2-38
 - print connections, overview 2-35
 - Print queue 2-38

Q

- queues
 - clearing 2-43
 - clearing all 2-45
 - described 2-36
 - publishing 2-38, 3-24
 - server 2-36, 2-37

R

- RARP 3-12
- RARP
 - protocol 2-15, 2-16, 2-17, 2-18, 2-20, 3-10, 3-11, 3-13
- Remove File Server option,
 - Bindery 2-27, 2-31
- reprinting jobs 2-37
- Request All Routes, Token Ring source
 - routing 3-9
- Respond All Routes, Token Ring source
 - routing 3-9
- RJ-45 connector 1-12
- root login, UNIX 4-20

S

- Save Changes
 - Job Log Setup 2-44
 - Network Setup 2-11, 2-35
 - PCL Setup 2-42
 - Printer Setup 2-39
 - PS Setup 2-40
 - Server Setup 2-9
 - Setup, Control Panel 2-7
- Search Name option (adding a file server) 2-28
- Select File Server option 2-28
- Select Frame Types option 2-21
- Select NDS Tree option 2-24
- Select protocol (Setup option) 2-16, 2-18, 3-11, 3-12
- selecting
 - Bindery servers 2-30
 - default paper size 2-39, 3-27
- selecting frame types for IPX/SPX 2-21
- server
 - Control Panel 2-2, 2-3
 - direct connection 2-35
 - display 2-2
 - Job Log 2-43
 - network installation summary 1-3
 - queues 2-36
- Server Name option 2-7, 3-2
- Server Name option, Windows printing 2-33, 3-22
- server performance, maintaining/improving 5-2 to 5-3
- Server Setup 2-7
 - exiting 3-28
 - from Windows computer 3-2
 - part of initial Setup 3-1
- Service Setup
 - configuring 3-21
 - from Control Panel 2-22

- Setup 2-2 to 2-46

- accessing 2-2 to 2-7
 - administrative functions 2-43
 - Control Panel menu 2-4
 - Network Setup 2-9
 - PCL Setup 2-41
 - Printer Setup 2-37
 - Protocol Setup 2-14
 - PS Setup 2-39
 - Server Setup 2-7
 - summary 2-2

- SMB, *see* Windows (SMB) printing

- Source Routing, Token Ring

- Setup 2-12, 3-9

- Start Page, printing 3-2

- STP (shielded twisted pair) cable A-1

- Subnet Mask option 2-16, 2-19, 3-12, 3-13

- superuser, UNIX 4-20

- Support option 3-6

- Supported Servers option, Bindery 2-30

- System Date option 2-7, 3-3

- System Time option 2-8, 3-3

T

- TCP/IP

- adding server to network 4-13
 - enabling for Token Ring 2-18
 - installing with Token Ring A-3
 - network diagram 1-9
 - ping 4-20
 - published connections 2-38
 - remote Setup 3-11
 - setting up printing from
 - Windows NT 4-11 to 4-15
 - with UNIX workstations 4-18

- TCP/IP Setup

- for Ethernet 2-15
 - for Token Ring 2-18
 - summary 2-10

- TCP/IP Setup, from Control Panel
 - summary 3-7
- TCP/IP with Ethernet, frame type 2-21
- TCP/IP with Token Ring, frame type 2-21
- terminology, Novell 2-27, 3-18
- thicknet cable 1-12
- time, setting 2-8, 3-3
- Token Ring
 - client setup A-3
 - frame types 3-15
 - network interface card A-1
 - overview A-1 to A-3
 - port setup 2-12
 - remote Setup 3-12
 - summary of setup 2-10, 3-7
 - summary of Setup required A-3
 - TCP/IP Setup 2-18
- Token Ring SNAP 2-21
- Token Ring Speed option 2-12
- Transmission Speed (Ethernet) option 3-8
- Transmission Speed (Token Ring)
 - option 3-9
- twisted pair cable 1-12, 1-13

U

- UNIX workstations
 - on TCP/IP network 1-9
- URL, setting for WebLink 4-17
- Use Character Set option 3-3
- Use WINS Name Server option 3-22

- User Login object 3-19
- utilities
 - enabling 3-12
 - server name for configuring connection to server 2-7
- utilities, *see* Fiery utilities 2-15
- UTP (unshielded twisted pair) cable A-1

V

- View Server List option, Bindery
 - Setup 2-27, 2-30
- viewing list of connected Bindery servers 2-30

W

- Web Services Setup 2-34, 3-21, 3-23
- WebLink, setting destination address 4-17
- WebSpooler 2-8, 2-36, 2-37, 2-43
- WebTools 4-15 to 4-17
 - enabling 2-15, 2-18, 2-34
- Windows (SMB) printing xiv
- Windows NT
 - network environment 1-7
 - setting up Windows NT server to print 4-12
 - with TCP/IP 1-7, 1-9
- Windows printing 3-22
 - setting domain or workgroup 2-34, 3-22
- Windows Setup 3-21
- WINS IP Address option 2-33, 3-22
- WINS name server 2-32

303 Velocity Way
Foster City, California 94404 USA

www.efi.com

26 Cunningham Street
North Sydney NSW 2060, Australia

Alameda Santos, 234 Suites 603 to 605
01418-000 São Paulo SP, Brasil

Kaiserswerther Straße 115
D-40880 Ratingen, Düsseldorf, Deutschland

Eastern Europe and Central Asia
Luegallee 18, D-40545 Düsseldorf, Deutschland

Parque Empresarial San Fernando, Edificio Francia
28830 Madrid, España

Immeuble Atria —5, Place des Marseillais
94227 Charenton-Le-Pont, Cedex, France

28/F, Soundwill Plaza, 38 Russell Street
Causeway Bay, Hong Kong

Centro Direzionale Milanofiori, Strada 6, Palazzo E1
20090 Assago (Milano), Italia

Shinjuku I-Land Wing 13F, 3-1 Nishi Shinjuku 6-chome,
Shinjuku-ku, Tokyo 160-0023, Japan

Boeing Avenue 201 - 207
1119 PD Schiphol-Rijk, Nederland

60-B Peck Seah Street
Singapore 079323

Frösundaviks Allé 15 4tr
169 70 Solna, Sverige

Stonebridge House, Padbury Oaks, Old Bath Road
Longford, Middlesex UB7 0EW, UK



Electronics
FOR **Imaging™**